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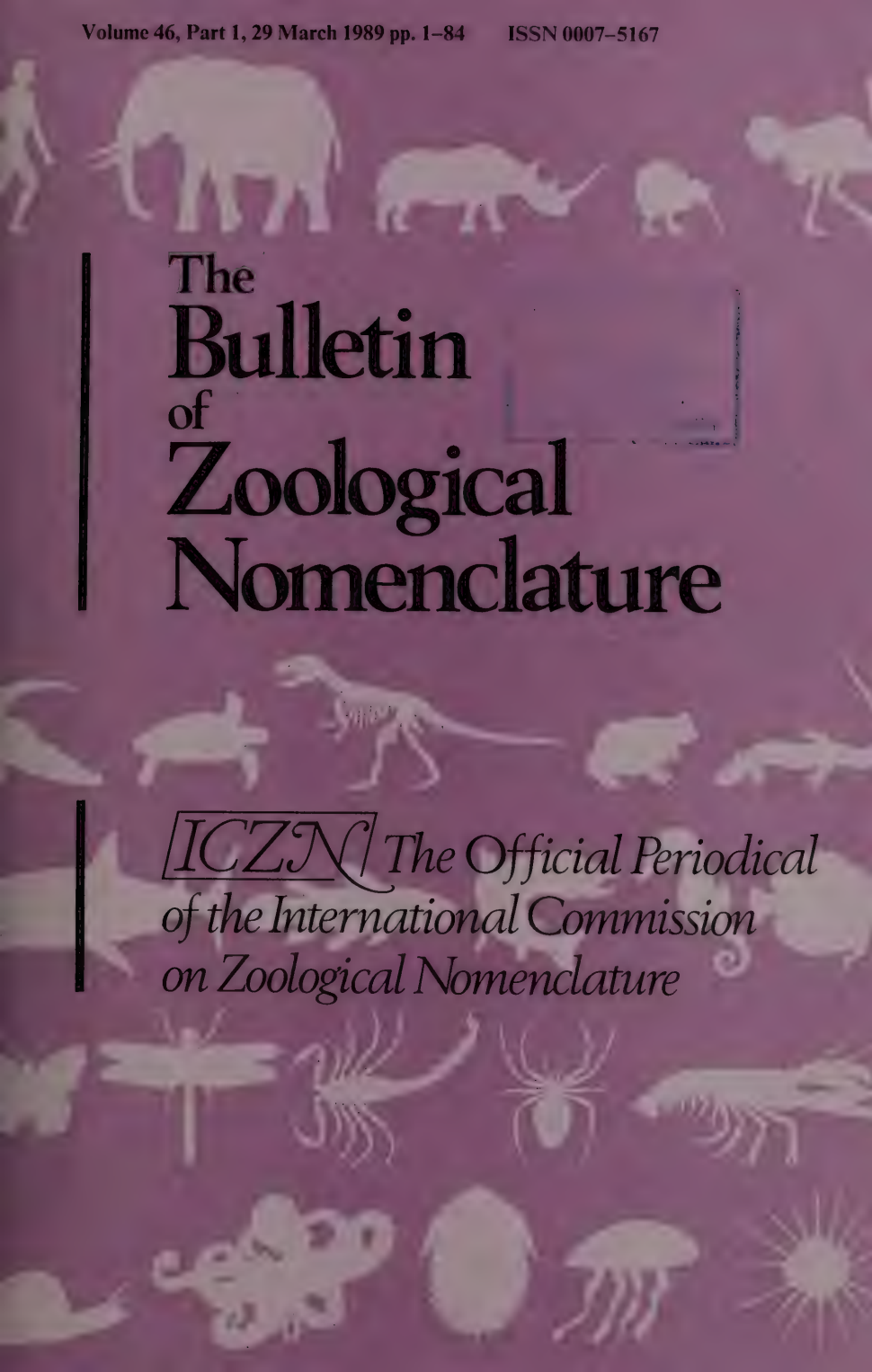
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Prof J. O. Corliss (<i>U.S.A.; Protista</i>)	(<i>Poland; Coleoptera</i>)
Prof C. Dupuis (<i>France; Heteroptera</i>)	Dr C. Nielsen (<i>Denmark; Bryozoa</i>)
Dr G. C. Gruchy (<i>Canada; Ichthyology</i>)	Dr W. D. L. Ride (<i>Australia; Mammalia</i>)
Prof Dr G. Hahn	Prof J. M. Savage (<i>U.S.A.; Herpetology</i>)
(<i>Fed. Rep. Germany; Trilobita</i>)	Prof Dr R. Schuster (<i>Austria; Acari</i>)
Prof Dr O. Halvorsen	Dr Y. I. Starobogatov
(<i>Norway; Parasitology</i>)	(<i>U.S.S.R.; Mollusca</i>)
Mr D. Heppell (<i>U.K.; Mollusca</i>)	Dr F. C. Thompson (<i>U.S.A.; Diptera</i>)
Dr L. B. Holthuis	Dr V. A. Trjapitzin
(<i>The Netherlands; Crustacea</i>)	(<i>U.S.S.R.; Hymenoptera</i>)
Dr Z. Kabata (<i>Canada; Copepoda</i>)	Dr Shun-Ichi Uéno (<i>Japan; Entomology</i>)
Prof Dr O. Kraus	Prof A. Willink
(<i>Fed. Rep. Germany; Arachnology</i>)	(<i>Argentina; Hymenoptera</i>)

Secretariat

Dr P. K. Tubbs (<i>Executive Secretary and Editor</i>)
Mr J. D. D. Smith, B.Sc., B.A. (<i>Scientific Administrator</i>)
Miss R. A. Cooper, B.Sc. (<i>Zoologist</i>)
Mrs A. Gentry, B.Sc. (<i>Zoologist</i>)

Officers of the International Trust for Zoological Nomenclature

Prof H. B. Whittington, F.R.S. (<i>Chairman</i>)
Dr M. K. Howarth (<i>Secretary and Managing Director</i>)

BULLETIN OF ZOOLOGICAL NOMENCLATURE

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29 March 1989

Notices

(a) *Invitation to comment.* The Commission is entitled to start to vote on applications published in the *Bulletin of Zoological Nomenclature* six months after the publication of each application. This period is normally extended to enable comments to be submitted. Any zoologist who wishes to comment on any of the applications is invited to send his contribution, in duplicate, to the Secretary of the Commission as quickly as possible, and in any case in time to reach the Secretary within twelve months of the date of publication of the application.

(b) *Invitation to contribute general articles.* At present the *Bulletin* comprises mainly applications concerning names of particular animals or groups of animals, resulting comments and the Commission's eventual rulings (Opinions). Proposed amendments to the Code are also published for discussion.

Articles or notes of a more general nature are actively welcomed provided that they raise nomenclatural issues, although they may well deal with taxonomic matters for illustrative purposes. It should be the aim of such contributions to interest an audience wider than some small group of specialists.

(c) *Receipt of new applications.* The following new applications have been received since going to press for volume 45, part 4 (published on 16 December 1988):

- (1) *Gryphaea pitcheri* Morton, 1834 (Mollusca, Bivalvia): proposed conservation of the specific name. (Case 2683). B. S. Kues & S. G. Lucas.
- (2) *Haplocanthosaurus* Hatcher, 1903 (Reptilia, Saurischia): proposed conservation. (Case 2684). S. G. Lucas & A. P. Hunt.
- (3) *Corisa verticalis* Fieber, 1844 (currently *Trichocorixa verticalis*; Insecta, Heteroptera): proposed conservation of the specific name. (Case 2685). A. Jansson.
- (4) *Longitarsus symphyti* Heikertinger, 1912 (Insecta, Coleoptera): proposed conservation of the specific name. (Case 2687). L. Borowiec.
- (5) *Callionymus pusillus* Delaroche, 1809 (Osteichthyes, Gobiesociformes): proposed conservation of the specific name. (Case 2688). R. Fricke.
- (6) *Helophorus obscurellus* Poppius, 1907 (Insecta, Coleoptera): proposed conservation of the specific name. (Case 2689). R. B. Angus.
- (7) *Helophorus brevipalpis* Bedel, 1881 (Insecta, Coleoptera): proposed conservation of the specific name. (Case 2690). R. B. Angus.
- (8) *Atheris* Cope, 1862 (Reptilia, Serpentes): proposed conservation. (Case 2691). D. G. Broadley.
- (9) *Mirochernes* Beier, 1930 (Arachnida, Pseudoscorpionida): proposed confirmation of *Chelonops dentatus* Banks, 1895 as the type species. (Case 2692). M. S. Harvey.

- (10) *Trionyx sinensis* Wiegmann, 1835 (Reptilia, Testudines): proposed conservation of the specific name. (Case 2693). R. G. Webb.
- (11) *Exoprosopa* Macquart, 1840 (Insecta, Diptera): proposed confirmation of *Anthrax pandora* Fabricius, 1805 as the type species. (Case 2694). N. L. Evenhuis & D. J. Greathead.
- (12) *Fonscolombia* Lichtenstein, 1877 (Insecta, Homoptera): proposed designation of *Fonscolombia graminis* Lichtenstein, 1877 as the type species. (Case 2695). Y. Ben-Dov & D. Matile-Ferrero.
- (13) *Ixodes angustus* Neumann, 1899 (Arachnida, Acari): proposed conservation of meaning by the replacement of the holotype by a neotype. (Case 2696). R. G. Robbins & J. E. Keirans.
- (14) *Streptograptus* Yin, 1937 (Graptolithina): proposed designation of *Mono-graptus plumosus* Baily, 1871 as the type species. (Case 2697). D. K. Loydell.
- (15) *Lachnabothra* Saunders, 1847 (Insecta, Coleoptera): proposed designation of *Chlamys braccata* Klug, 1824 as the type species, and proposed designation of the holotype of *C. braccata* as the neotype of *Lachnabothra hopei* Saunders, 1847. (Case 2698). C. A. M. Reid.
- (16) RISSOIDEA (or RISSOACEA) Gray, 1847 (Mollusca, Gastropoda): proposed precedence over TRUNCATELLOIDEA (or TRUNCATELLACEA) Gray, 1840. (Case 2699). G. Rosenberg & G. M. Davis.
- (17) *Carcinochelis* Fieber, 1861 (Insecta, Heteroptera): proposed conservation of *C. alutaceus* Handlirsch, 1897 as the type species. (Case 2700). R. C. Froeschner & N. A. Kormilev.
- (18) *Plateumaris* Thomson, 1859 (Insecta, Coleoptera): proposed conservation. (Case 2701). I. S. Askevold & H. Silfverberg.
- (19) *Culex stigmatosoma* Dyar, 1907 and *C. thriambus* Dyar, 1921 (Insecta, Diptera): proposed conservation by the suppression of *C. peus* Speiser, 1904 (Case 2702). B. F. Eldridge & R. E. Harbach.
- (20) HOMALOPTERIDAE Bleeker, 1859 (Osteichthyes, Cypriniformes): proposed precedence over BALITORIDAE Swainson, 1839. (Case 2703). H. Hieronimus.
- (21) *Tringa ochropus* Linnaeus, 1758 (Aves, Charadriiformes): proposed conservation of *ochropus* as the correct original spelling of the specific name. (Case 2704). J. Mlíkovský.
- (22) EPHYDRIDAE Zetterstedt, 1837 (Insecta, Diptera): proposed precedence over GYMNOZYIDAE Latreille, 1829. (Case 2706). W. N. Mathis & T. Zatwarnicki.
- (23) *Amphiporus* Ehrenberg, 1831 (Nemertea): proposed designation of *Planaria lactiflorea* Johnston, 1828 as the type species. (Case 2707). R. Gibson & F. B. Crandall.
- (24) *Colydium* Fabricius, 1792 (Insecta, Coleoptera): proposed designation of *Bostrichus elongatus* Fabricius, 1787 as the type species. (Case 2708). M. A. Ivie.

(d) *Rulings of the Commission.* Each Opinion, Declaration and Direction published in the *Bulletin* constitutes an official ruling of the International Commission on Zoological Nomenclature, by virtue of the votes recorded, and comes into force on the day of publication of the *Bulletin*.

The International Commission on Zoological Nomenclature and its publications

The International Commission on Zoological Nomenclature was established in 1895 by the III International Congress of Zoology, and at present consists of 25 zoologists from 16 countries whose interests cover most of the principal divisions (including palaeontology) of the animal kingdom. The Commission is under the auspices of the International Union of Biological Sciences (IUBS), and its members are elected at open meetings held in conjunction with Congresses of IUBS or of its associated bodies. Casual vacancies may be filled between Congresses. Nominations for membership may be sent to the Commission Secretariat at any time.

The International Code of Zoological Nomenclature has one fundamental aim, which is to provide 'the maximum universality and continuity in the scientific names of animals compatible with the freedom of scientists to classify all animals according to taxonomic judgments'. The latest (Third) Edition was published in 1985 in English and French by the International Trust for Zoological Nomenclature, acting on behalf of the Commission.

Observance of the rules in the Code enables a biologist to arrive at the valid name for any animal taxon between and including the ranks of subspecies and super-family. Its provisions can, if necessary, be waived or modified in their application to a particular case; however, this must never be done by an individual but only by the Commission, acting on behalf of all zoologists. Proposals for any such action should be addressed to the Commission Secretariat, and should follow the instructions on the inside back cover of the *Bulletin*.

The Bulletin of Zoological Nomenclature is published four times each year. It contains applications for Commission action, as described above; their publication is an invitation for any person to contribute comments or counter-suggestions, which may also be published. The Commission makes a ruling (called an Opinion) on a case only after a suitable period for comments. All Opinions are published in the *Bulletin*, which also contains articles and notes relevant to zoological nomenclature; such contributions may be sent to the Secretariat.

The Commission's rulings are summarised in the *Official Lists and Indexes of Names and Works in Zoology*; a single volume covering the period 1895–1985 was published in 1987, and a free supplement covering 1986–1988 will be issued early in 1989.

In addition to dealing with applications and other formal matters the Commission's Secretariat is willing to help any zoologist with advice on any question with nomenclatural (as distinct from purely taxonomic) implications.

The International Trust for Zoological Nomenclature is a charity (non-profit making company) registered in the U.K. The Secretariat of the Commission is at present located in London, and the Trust is established there for legal reasons to handle the financial affairs of the Commission. The income of the Trust comes from the sale of publications (*Code*, *Bulletin* and *Official Lists*), from support by national and international institutions, and from donations by societies and individuals. The level of income has been, and remains, a constraint on the services given to zoology by the Commission, and donations to the Trust are gratefully received.

Addresses of members of the Commission

- Dr F. M. BAYER *U.S. National Museum of Natural History, Washington, DC 20560, U.S.A.*
 Prof W. J. BOCK *Department of Biological Sciences, Columbia University, New York, NY 10027, U.S.A.*
 Dr L. R. M. COCKS *British Museum (Natural History), Cromwell Road, London SW17 5BD, U.K.*
 Dr H. G. COGGER *Australian Museum, P.O. Box A285, Sydney South, N.S.W. 2000, Australia*
 Prof John O. CORLISS *P.O. Box 53008, Albuquerque, New Mexico 87153, U.S.A. (Councillor)*
 Prof C. DUPUIS *Muséum National d'Histoire Naturelle, 45 rue de Buffon, 75005 Paris, France*
 Dr G. C. GRUCHY *Canadian Conservation Institute, 1030 Innes Road, Ottawa, K1A 0M8, Canada*
 Prof Dr Gerhard HAHN *Fachbereich Geowissenschaften, D-355 Marburg (Lahn), Fed. Rep. Germany*
 Prof Dr O. HALVORSEN *Institute of Biology and Geology, University of Tromsø, P.O. Box 790, N-9001 Tromsø, Norway*
 Mr David HEPPELL *Department of Natural History, National Museums of Scotland, Chambers Street, Edinburgh EH1 1JF, U.K. (Councillor)*
 Dr L. B. HOLTHUIS *Rijksmuseum van Natuurlijke Historie, Postbus 9517, 2300 RA Leiden, The Netherlands (Councillor)*
 Dr Z. KABATA *Canada Department of Fisheries and Oceans, Pacific Biological Station, Nanaimo, B.C., V9R 5K6, Canada*
 Prof Dr Otto KRAUS *Zoologisches Institut und Zoologisches Museum, 2000 Hamburg 13, Fed. Rep. Germany*
 Dr P. T. LEHTINEN *Zoological Museum, Department of Biology, University of Turku, SF-20500 Turku 50, Finland*
 Prof U. R. MARTINS DE SOUZA *Museu de Zoologia da Universidade de São Paulo, Caixa Postal 7172, 04263 São Paulo, Brazil*
 Dr M. MROCZKOWSKI *Instytut Zoologii, Polska Akademia Nauk, ul. Wilcza 64, Warsaw, Poland*
 Dr C. NIELSEN *Zoologisk Museum, Universitetsparken 15, DK-2100, Kobenhavn, Denmark*
 Dr W. D. L. RIDE *Department of Geology, The Australian National University, P.O. Box 4, Canberra, A.C.T. 2600, Australia (President)*
 Prof Jay M. SAVAGE *Department of Biology, University of Miami, P.O. Box 249118, Coral Gables, Florida 33124, U.S.A. (Councillor)*
 Prof Dr R. SCHUSTER *Institut für Zoologie, Universität Graz, Universitätsplatz 2, A-8010 Graz, Austria*
 Dr Y. I. STAROBOGATOV *Zoological Institute, Academy of Sciences, Leningrad 199164, U.S.S.R.*
 Dr F. C. THOMPSON *Systematic Entomology Laboratory, USDA, c/o U.S. National Museum, Washington, DC 20560, U.S.A.*
 Dr V. A. TRJAPITZIN *Zoological Institute, Academy of Sciences, Leningrad 199034, U.S.S.R.*
 Dr Shun-ichi UENO *Department of Zoology, National Science Museum, Hyakumincho 3-23-1 Shinjuku, Tokyo 160, Japan*
 Prof A. WILLINK *Universidad Nacional de Tucumán, Instituto Miguel Lillo, Miguel Lillo 205, 4000 Tucumán, Argentina*

International Trust for Zoological Nomenclature

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Miss R.A. Cooper, B.Sc. (*Zoologist*)

Mrs. A. Gentry, B.Sc. (*Zoologist*)

Proposed fourth edition of the International Code of Zoological Nomenclature — a call for possible amendments to the third (1985) edition

At its recent meeting in Canberra the International Commission on Zoological Nomenclature decided to embark on the preparation of a new (fourth) edition of the Code, and established an Editorial Committee for that purpose. It is expected that publication will be in late 1994 or in 1995, following approval of a final draft by the Commission and its adoption by the International Union of Biological Sciences (IUBS).

A considerable number of possible amendments to the Code have been suggested to the Commission or have come to the attention of the Secretariat, and these will be further examined by the Editorial Committee. A preliminary discussion by the Section of Zoological Nomenclature of IUBS is reported in BZN 46: 15–17. The Commission now invites the submission of further possible amendments to the current (1985) Code, or comments on those already submitted, and these should be sent to the Executive Secretary as soon as possible. It is intended that proposals received by the end of 1989 will be discussed at meetings held in conjunction with the International Congress of Systematic and Evolutionary Biology (ICSEB) in Maryland in July 1990.

The Commission would welcome wide publicity being given to its call for possible amendments to the Code.

Official Lists and Indexes of Names and Works in Zoology — Supplement

The *Official Lists and Indexes of Names and Works in Zoology* was published in 1987. This gave all the names and works on which the International Commission on Zoological Nomenclature had ruled since it was set up in 1895 up to December 1985. There were about 9,900 entries.

In the three years since 1985, 544 names and 3 works have been added to the Official Lists and Indexes. A supplement has been prepared giving these additional entries, together with some amendments to entries in the 1987 volume. This supplement is circulated with Vol. 46, Part 1 of the *Bulletin of Zoological Nomenclature*. Copies can be obtained without charge from either of the following addresses, from which the *Official Lists and Indexes of Names and Works in Zoology* can be ordered at the price shown:

The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £60 or \$110
or

The American Association for Zoological Nomenclature, c/o NHB Stop 163, National Museum of Natural History, Washington D.C. 20560, U.S.A. Price \$110 (\$100 to members of A.A.Z.N.).

International Commission on Zoological Nomenclature

General Session of the Commission, Canberra, 15–19 October 1988

Present: Dr W. D. L. Ride (President) in the Chair: Commissioners Cogger, Corliss, Dupuis, Holthuis, Kraus, Lehtinen, Melville and Thompson. Dr K. H. L. Key was present, by invitation, for part of the meeting. Dr Tubbs (Executive Secretary), Miss Cooper, Mrs Gentry and Mr Smith from the Secretariat also present.

1. Apologies for absence were received from Commissioners Alvarado, Bayer, Bernardi, Cocks, Gruchy, Hahn, Halvorsen, Heppell, Kabata, Mroczkowski, Savage, Schuster, Starobogatov, Trjapitzin, Uéno and Willink.

2. The minutes of the previous General Session of the Commission (Budapest, September 1985) had been published in BZN 42: 313–323.

Business arising from the Minutes: The Commission considered alternative drafts prepared to implement its decision to amend the Bylaws to provide for electing members of the Commission from a single list. The Commission adopted the following new Bylaw 3:

'Bylaw 3. Slate of Nominees, Voting and Determining the Result

(a) The Commission shall present a slate of nominees to the Section of Zoological Nomenclature. In preparing the slate, the Commission shall receive all names submitted under the provisions of Bylaw 2 and shall consider for the slate all those qualified to meet the conditions of Articles 2(b) and (c) of the Constitution and Bylaw 1. At that time the Commission may consider additional nominees of its own choice. Retiring members of the Commission who are proposed for re-election (subject to Article 3(b) of the Constitution) shall be indicated on the slate. The Commission may explicitly recommend any nominee whom it considers particularly well qualified, but such recommendation is not binding on the Section of Zoological Nomenclature.

(b) In the event that there are insufficient nominees who the Commission is prepared to nominate, the Commission may propose that a vacancy remain unfilled and dealt with as though it were a casual vacancy.

(c) The Commission shall endeavour to nominate, wherever possible, two candidates for each vacancy. The slate shall not contain more than twice the number of names required to fill the vacancies.

(d) The election shall be conducted by the Officers and Council present at the meeting of the Section of Zoological Nomenclature provided that no person who is a candidate for the election shall conduct the election. In the event that no Officer or member of the Council is present and eligible the members of the Commission present shall appoint some from their number to conduct the election.

(e) Voting on the slate shall be by secret ballot of members of the Section of Zoological Nomenclature present in person.

(f) The ballot of each member voting shall consist of a ballot paper containing the names of the persons on the slate and no others.

(g) Each member voting may indicate his or her preference for as many candidates as are required to fill the vacancies by placing a cross against their names. A completed ballot paper containing more crosses than there are vacancies shall be void and not counted.

(h) The result of the ballot shall be ascertained by counting the votes given to each candidate and the candidate or candidates to whom more votes have been given than to the other candidates, up to the number of members of the Commission to be elected, shall be declared to have been elected.

(i) If an equality of votes is found to exist between any candidates and the addition of a vote would entitle any of those candidates to be declared elected, the President, or in the absence of the President the Vice-President or the person appointed in accordance with Bylaw 18 to preside over the meeting of the Commission at which the slate was prepared, shall determine which of them is deemed to be elected, giving consideration to the need to secure a balanced representation in the composition of the Commission in accordance with Article 2(c) of the Constitution.'

3. The Agenda was adopted as circulated.

4. The Executive Secretary's report to IUBS had been circulated and was endorsed by the Commission.

5. *International Code of Zoological Nomenclature: Progress Report on Sales*

Dr Tubbs reported that more than 6,000 copies of the 3rd Edition of the Code (published February 1985) had been sold but an adequate number remained in stock to avoid the need for an early reprinting. Members thought that a breakdown of sales by countries would indicate the importance attached to zoological nomenclature in those countries and would help in pin-pointing funding sources. The Secretariat was asked to circulate such information as the sales agents could provide. The importance of the Code to editors of zoological journals was stressed.

6. *Official Lists and Indexes of Names and Works in Zoology*

Dr Tubbs reported that a revised and updated edition of the Official Lists and Indexes had been published in June 1987, bringing together in one volume all the names and works on which the Commission had ruled since it was set up. About 360 copies had already been sold, more than recovering the direct costs of publication. It was planned to issue a supplement listing all the names added up to December 1988.

7. *Bulletin of Zoological Nomenclature*

The new format and cover design of the BZN introduced in 1987 were welcomed by members. It was RESOLVED that the appreciation of the Commission of the work of those responsible be recorded formally. While agreeing that the present style of Applications should be retained, it was suggested that, in due course, straight-forward cases unlikely to generate comment might be dealt with more expeditiously and at less cost by publishing these in abstract accompanied by the formal proposals; photocopies of the full applications would be sent to members of specialist committees and any zoologists requesting them. It was RESOLVED to remit this suggestion to the Council, to report to the Commission in 1991. General articles should continue to be published

subject, as at present, to careful refereeing. It was important that the list of Commissioners given in each part of BZN should show their specialist field and nationality. A poster publicising the Bulletin as the official periodical of the Commission was displayed; copies would be sent to Commissioners for display at specialist meetings they were attending.

8. *Specialist Nomenclature Committees*

The Mammalian Nomenclature Committee (convener: Dr S. B. George) had been very useful in providing comments on cases referred to it. The Standing Committee on Ornithological Nomenclature (SCON) of the International Ornithological Congress was available to assist the Commission. The Committee (Chairman: Professor W. J. Bock) was at present formulating proposals for the stabilisation of avian family-group names. It was RESOLVED that the Secretariat would pursue the intention to establish nomenclature committees where none existed.

9. *Use versus Priority in Zoological Nomenclature*

A general article (BZN 44: 79-85) proposing that the names adopted in authoritative works, selected on the recommendation of specialists, might be protected by the Commission from the application of the Principle of Priority was discussed. It was agreed that the proposal should be considered in the revision of the Code in the context of a re-examination of Articles 23(b) and 79(a) and (b).

10. *Financial Position*

Since the last meeting of the Commission, financial support had been received from Denmark, Italy, Japan, South Africa, Sweden, Switzerland, Taiwan, U.K. and U.S.A. It was inevitable that income from sales of the Code and of the Official Lists and Indexes would drop, and on present trends the annual deficit by 1991 was likely to be between £10,000 and £20,000. There was an urgent need to widen the funding-base and to generate additional funds to enable the Commission's activities to be maintained, let alone expanded. The Commission set up an ad-hoc Working Party (Commissioners Cogger (Chairman), Kraus, Lehtinen and Thompson) to consider the issue. The main conclusions of the Working Party were that the most likely sources of additional funds were learned societies and relevant industry (pesticide, agricultural, medical, etc.). An endowment fund with at least £500,000 to generate income from interest would be highly desirable, providing it did not entail unacceptable restrictions on the use of funds. Individual members of the Commission were best placed to initiate fund-raising in their own countries and those present agreed to do so. The Secretariat was asked to prepare a series of letters or brochures geared to individual sectors of industry, giving examples of the importance of the Commission's work. The President reported that there was a possibility that IUBS might be willing to generate a contribution to an endowment fund from its member bodies.

11. *Election of Commissioners*

(i) *Procedure for Elections.* Five vacancies in Commission membership had been announced, arising from the completion of tenure by Commissioners Alvarado, Bernardi, Dupuis and Holthuis and the death of Commissioner Zheng. Twenty-one nominations had been received including the four retiring members, who had

been ruled by the Council as eligible for re-election. In accordance with Article 4(d) of the Constitution, the Commission selected 10 of the nominees to present to the Section of Zoological Nomenclature. Five of the 10 nominees were recommended by the Commission for election to secure the best balance of nationality and zoological field in Commission membership, as laid down in Article 2 of the Constitution. In accordance with Article 3(b) of the Statutes of the Section of Zoological Nomenclature, it was RESOLVED to admit to the Section in Session at the XXIII General Assembly of IUBS all zoologists who had formally enrolled as participants in the pre-General Assembly Biotaxonomy Workshop. In accordance with Article 3 of the Statutes of the Section they, together with members of the Commission and zoologists at the General Assembly being members of national or other delegations, Sections or Commissions of the Union, constituted the membership of the Section eligible to vote in the election.

(ii) *Election by the Section of Zoological Nomenclature.* Voting by secret ballot was undertaken by the Section of Zoological Nomenclature. The ballot was open throughout the afternoon of 17 October and the morning of 18 October. In accordance with Bylaw 3d, Dr Ride and Professor Corliss conducted the election. Forty-three members of the Section voted. The following five zoologists were elected to the Commission:

BOCK, Prof W. J.	U.S.A.	Ornithology
DUPUIS, Prof C.	France	Heteroptera
HOLTHUIS, Prof L. B.	Netherlands	Crustacea
MARTINS DE SOUZA, Prof U. R.	Brazil	Coleoptera
NIELSEN, Dr C.	Denmark	Bryozoa, Mollusca, Coelenterata

(iii) *Casual Vacancies.* The Commission had decided by a postal vote conducted prior to the General Assembly to increase its number to 29. The decision had been taken under Article 2(a) of the Constitution and Bylaw 7. In accordance with its powers under Bylaw 8, the Commission RESOLVED to fill the 3 vacancies so created as though they were casual vacancies. These vacancies, together with the vacancy created by the impending retirement of Mr Melville on reaching the age limit, would be announced in the December 1988 part of BZN and nominations would be invited. All nominations received by 28 February 1989, including those nominations that had been rejected in the election that had taken place at the XXIII General Assembly of IUBS, would be eligible for consideration. Voting would commence on 1 March 1989 under the 3-month procedure.

12. Section of Zoological Nomenclature

Meetings of the Section of Zoological Nomenclature took place on three days between 14 and 18 October 1988, chaired by the President or, in his absence, Dr Cogger. The main tasks of the Section were to elect members to the Commission, to initiate consideration of amendments to the Code, and to consider resolutions forwarded by the IUBS pre-Assembly Biotaxonomy Workshop. [The Minutes of the meeting of the Section of Zoology are published in BZN 46: 14-18.]

13. *IUBS pre-Assembly Biotaxonomy Workshop*

A Workshop entitled 'Whose Name? What Specimen?', organised by the Australian Biological Resources Study, had been held in Canberra on 12–14 October 1988, attended by 85 botanists and zoologists, including most of the Commissioners present in Canberra. The objective of the Workshop was to provide a forum for learning and exchanging ideas about some major proposals to change the formal ways in which taxonomists are obliged, under the International Codes of Nomenclature, to deal with biological names.

The Workshop passed five resolutions (see Appendix to this report) to be presented to the IUBS General Assembly. The Commission welcomed and supported the resolutions, recognising that setting up a register of zoological names implied a work load that would have to be met over a large number of years. The President and Executive Secretary had attended a meeting at Kew, London, in April 1988 that had made recommendations about registers of names (see BZN 45: 183–185), although it was concerned primarily with botany.

14. *New Edition of the Code*

The 3rd Edition of the Code had been published in February 1985 and already a large number of significant amendments had been received or had come to the attention of the Secretariat. Proposed amendments had been considered by a Scrutinising Committee which met in London in April 1988. The views and advice of the Section of Zoological Nomenclature would be sought at the General Assembly.

It was RESOLVED to work towards a new edition of the Code to be published in 1994 or as soon thereafter as possible. An Editorial Committee (Commissioners Thompson (Chairman), Cogger, Dupuis, Melville and *ex officio* the President) was set up to prepare the new edition. An announcement of the decision to prepare a new edition would be made in the Bulletin, and comments and amendments invited, to be submitted to the Executive Secretary as soon as possible. Proposals would be published and further comments sought. A first draft, taking account of proposals received by the end of 1989, would be prepared by the Editorial Committee for wide circulation, inviting comments. An opportunity for consideration would arise at meetings of the Commission and of the Section planned in conjunction with ICSEB at its meeting in Maryland in July 1990. The Commission and the Section would then consider the new edition in draft form at the 1991 IUBS Assembly. The Commission would then vote on substantive changes. The new edition incorporating the changes authorised by that vote would be presented to IUBS in 1994 for ratification. Publication would follow as soon as possible thereafter.

15. *Appointment of Officers and Councillors*

Dr Ride would complete six years as President on 13 July 1989. The office of Vice-President would become vacant at the close of the IUBS General Assembly, on the completion of Professor Alvarado's tenure as a member of the Commission. Both offices would be filled by the procedure laid down in the Bylaws. It was RESOLVED that for this purpose Commissioners Melville and Thompson would join with the Council to propose two candidates for the office of President. Voting under the 1-month procedure would start on 1 April 1989. The office of Vice-President would be filled by the same procedure either at the same time as, or subsequent to, the election of the

President. The Executive Secretary would conduct the administration of the election, writing in the first place to Council members and to Commissioners Melville and Thompson.

Commissioners Heppell and Holthuis would complete 6 years as Councillors on 12 May 1990, and, under Bylaw 10, these vacancies would be filled by an election beginning on 1 April 1990. It was noted that vacancies on the Council might arise as a consequence of the elections of a President and a Vice-President.

The appointments of the Secretary-General and the Executive Secretary are the responsibility of the Council and end at the close of the IUBS General Assembly following appointment, both being open to renewal. In view of the President's impending retirement and the changes to the membership of the Council, it was **RESOLVED** to extend both appointments until after the election of the new President.

16. *Appreciation*

The Commission **RESOLVED** to record its very warm appreciation of the services of its two retiring members (Professor Alvarado and Dr Bernardi) to the Commission and to zoological nomenclature, and to thank members of the International Trust for Zoological Nomenclature, particularly its Chairman and Secretary, for their support of the Commission's work. The Commission wished to thank the Trustees and Director of the British Museum (Natural History) for providing the Secretariat with accommodation and services.

Appendix

RESOLUTIONS FROM THE IUBS WORKSHOP 'WHOSE NAME? WHAT SPECIMEN?' CANBERRA 12-14 OCTOBER 1988

1. The XXIII General Assembly of IUBS:

Recalling the conclusions and decisions of previous General Assemblies on the importance of a stable system of names of organisms based on a taxonomic understanding of their nature, both in fundamental research and applied fields;

Noting with approval the reports and conclusions of the IUBS Workshop 'Whose name? What specimen?';

Resolves that a research program on improvement of stability in Biological Nomenclature be included as a part of the Scientific Program of the Union;

Urges international organisations and other appropriate institutions to provide adequate support to efforts to improve the stability of names of organisms;

Requests the Commission on Botanical Nomenclature to appoint a Special Committee on Lists of Names in Current Use (cf. *Nature* **334**: 301, 1988);

Requests the International Commission on Zoological Nomenclature to study, in conjunction with appropriate agencies (such as the publisher of *Zoological Record*) the feasibility of indexing, on an international basis, scientific names in zoology.

2. The XXIII IUBS General Assembly:

Appreciating that today an increasing number of biologists are recognising protozoa, algae, and the 'lower' fungi as comprising an assemblage of lower eukaryotic organisms called protists and that traditionally a considerable number of these

organisms have been unsatisfactorily subject to simultaneous nomenclatural treatment under both botanical (I.C.B.N.) and zoological (I.C.Z.N.) codes;

Resolves that a multidisciplinary approach to such problems be continued;

Seeks to further harmonise the two codes to allow more equitable infraordinal nomenclatural treatment of the affected groups of protists.

3. The XXIII IUBS General Assembly:

Recognising the importance of taxonomy as a fundamental framework for all biological research;

Recognising that taxonomy also provides an essential framework for communication in agriculture, commerce, medicine, and other activity relating to biological products;

Resolves to work to convince governments around the world of the urgent need for increased resources to be made available for taxonomic education and taxonomic research in the light of rapidly increasing rates of extinction and the need for that research for the management and conservation of natural resources.

4. The XXIII IUBS General Assembly:

Resolves that its Commission for Biological Education, in consultation with the Section on Plant Taxonomy and the International Commission on Zoological Nomenclature,

Develop an education programme to:

(a) explain the significance of taxonomy, especially in applied fields, and

(b) define for users of biological names, the reasons behind taxonomic name changes and how they arise from progress in taxonomy itself.

5. The XXIII IUBS General Assembly:

Encourages the development of lists of scientific names of taxonomic groups of plants and animals on a world and regional basis with such lists including all legitimate names validly and effectively published under the appropriate Code of nomenclature and including data on place and date of publication and typification and that such lists should be published appropriately and wherever possible be integrated with comprehensive accessible databases especially where those databases deal with natural (taxonomic) groups.

International Union of Biological Sciences

Section of Zoological Nomenclature

Report of Meeting, Canberra, 14–18 October 1988

Present: Dr W. D. L. Ride (Chairman). Dr H. G. Cogger, Miss R. A. Cooper, Professor J. O. Corliss, Professor C. Dupuis, Dr W. M. Eschmeyer, Mr K. D. Fairey, Mrs A. Gentry, Miss A. J. A. Green, Dr R. B. Halliday, Professor L. B. Holthuis, Dr W. M. K. Houston, Dr K. H. L. Key, Dr M. E. King, Professor O. Kraus, Dr P. T. Lehtinen, Mr R. C. Longmore, Dr M. Meinander, Mr R. V. Melville, Dr E. S. Nielsen, Mr S. Rad, Dr D. C. F. Rentz, Dr B. J. Richardson, Mr J. D. D. Smith, Dr D. L. Strusz, Dr F. C. Thompson, Dr P. K. Tubbs, Dr G. F. Van Tets, Dr D. W. Walton.
By invitation: Mr R. J. F. Henderson (Queensland Herbarium).

1. Meetings took place on three days. Not all persons listed were present on all occasions. Dr Cogger took the Chair when Dr Ride was unable to be present.

2. The Chairman opened the meeting by welcoming all present. He explained that the Section of Zoological Nomenclature was convened by IUBS and consisted of members of the Commission, any zoologists being members of national or other delegations of IUBS and any other zoologists admitted by the Commission. Any botanists present were by invitation. He explained that the main tasks of the Section were to elect members to the Commission, to initiate consideration of amendments to the International Code of Zoological Nomenclature, and to consider resolutions forwarded by the pre-Assembly Biotaxonomy Workshop.

3. *Election of Members to the Commission*

All members of the Section had a vote in the ballot for new members of the Commission. Five vacancies had been announced, arising from the completion of tenure by Professor Alvarado, Dr Bernardi, Professors Dupuis and Holthuis and the death of Professor Zheng. Twenty-one zoologists had been nominated, including the four retiring members, who the Council of the Commission had ruled eligible for re-election. In accordance with Article 4(d) of its Constitution, the Commission had selected 10 of the nominees to present to the Section as candidates. Five of the 10 nominees were recommended by the Commission for election to secure the best balance of nationality and zoological field in Commission membership. The ballot was open throughout the afternoon of 17 October and the morning of 18 October. Forty-three members of the Section voted. Dr Ride and Professor Corliss conducted the election. The following five zoologists were elected to the Commission:

BOCK, Prof W. J.	U.S.A.	Ornithology
DUPUIS, Prof C.	France	Heteroptera
HOLTHUIS, Prof L. B.	Netherlands	Crustacea
MARTINS DE SOUZA, Prof U. R.	Brazil	Coleoptera
NIELSEN, Dr C.	Denmark	Bryozoa, Mollusca, Coelenterata

4. *Consideration of Amendments to the Code*

The Chairman explained that proposals to amend the Code could be submitted to the Commission's Executive Secretary. Proposals would be published in the Bulletin of Zoological Nomenclature (BZN) for discussion by zoologists and would be considered by a committee of the Commission. It was intended to work towards a new edition of the Code which in draft form could be considered by the Commission and the Section in 1991. An opportunity for preliminary consideration would arise at meetings of the Section and the Commission planned in conjunction with ICSEB at its meeting in Maryland in July 1990. The new edition could be ratified by IUBS in 1994 and published as soon after that as possible. The views and advice of the Section on the general principles involved would provide a valuable input to the Commission.

The Section considered a document prepared by the Executive Secretary of the Commission. This incorporated suggestions and proposals for amendments made by a large number of zoologists and by members of the Commission since publication of the 3rd Edition in February 1985, and other points that had come to the attention of the Secretariat. Proposals had been examined by the Commission's Scrutinising Committee which had met in London in April 1988. This report records the Section's response to proposals that were discussed, together with additional amendments proposed from the floor.

Article 1(a). Zoological Nomenclature. Definition and Scope. Names of animal taxa. A proposal that the fundamental aims of zoological nomenclature should be incorporated in Article 1(a) was not favoured since such a definition would be out of place in the Articles and should remain in the Preamble.

Article 8. What constitutes publication. It was important to make clear and uniform the status of suppressed works. They could be cited for reference purposes, but names could not be available in them, nor would they be sources of formal nomenclatural acts, i.e. they would have the same status as works published before 1758.

Article 11(f)iii. Criteria of availability. Family-group names. A family-group name published before 1900, but not itself fully latinised, can be available with its original author and date, provided that it has been latinised by later authors and generally accepted as valid by authors interested in the group concerned. It had been proposed that the requirement that acceptance as valid must be by authors 'interested in the group' was unnecessarily restrictive and might be dispensed with. No conclusion was reached; some members thought that this requirement should be retained.

Articles 12 and 13. Criteria of availability. Names published (a) before 1931, and (b) after 1930. It was agreed that there was a case for simplifying and merging these two Articles into a single Article. The words 'purported to differentiate the taxon' could be replaced by 'purported to make the taxon identifiable'. There was support for the suggestion that, from a future date, a new species-group name would not be available unless a type specimen or specimens had been labelled and deposited in a publicly accessible collection. There would be circumstances when this requirement could not be met, e.g. for specimens that could not be retained for physical or legal reasons.

Article 23(b). Principle of Priority. Purpose. This Article is open to criticism since it places on a worker wishing to preserve current general usage of a junior name the onus to apply to the Commission for its conservation. It would be preferable to place on the worker wishing to introduce a forgotten senior synonym to replace a junior synonym in

general current use the onus to justify that action. The following amendment was proposed by Dr Key:

‘After 19—,

(1) A name that has remained unused in the primary zoological literature for more than 50 years is not to displace a junior synonym in general use unless the Commission so rules;

(2) An author who considers that a name unused, or rarely used, within a period of less than 50 years would disturb stability or universality, or cause confusion, if it replaced a junior synonym in general current use, should apply to the Commission requesting a ruling to give precedence to the name in current use’.

In discussion, members agreed that the proposed amendment had many attractions but agreement was not reached. It was noted that Articles 23(b), 79, 80 and the Preamble needed to be considered together.

Article 24(b). Principle of the First Reviser. It was noted that, in the case of authors citing names established by themselves, the present requirement that the competing names in question must be cited together was unnecessarily restrictive. It was agreed that the wording of this Article should be amplified so that an author who subsequently used only one of two or more synonyms previously published simultaneously by himself should be held to have acted as the first reviser unless another author had already become the first reviser.

Article 29(b)(i). Family-group names. Determination of stem in names of type genera. It had been proposed that, in the construction of family-group names when the genitive singular of the generic name had the form *-idis*, the stem should be elided so that family-group names had the form *-IDAE* rather than *-IDIDAE*. Members had no strong views on this proposal but recognised that some groups of workers, such as ichthyologists, would favour it.

Article 31(a). Species-group names formed from personal names. Use of the terminations *-i* and *-ii* needed clarification. Opinion was divided between the advantages of following the original spelling or of changing *-ii* to *-i*, except in certain cases. There was little support for permitting the user to have discretion as to which termination should be used.

Article 31(b). Adjectival species-group names. Agreement in gender. There was strong support for a proposal that the spelling of an adjectival specific name should remain as in the original binomen, even when combined with a generic name of a different gender from that in the original combination. Classical knowledge was becoming uncommon and, more significantly, data retrieval techniques required uniform usage.

Article 33(a). Formation and treatment of names. Kinds of subsequent spellings. There was strong support for the proposal that the Code should make it absolutely clear that, in all cases of doubt, a different subsequent spelling should be treated as incorrect and not as an unjustified emendation.

Article 39. Family-group taxa and names. Homonymy of the type genus. It was thought desirable to maintain the concept of the family-group taxon, so that, when the name of a type genus is found to be a junior homonym, the family-group name should be replaced by the name based on the replacement name of the type genus.

Article 40. Family-group taxa. Synonymy of the name of a type genus. The meeting favoured a simplification of this Article, with merging of Sections (a) and (b). It was

most important to maintain continuity of the family-group name in current general usage, even if based on a type genus name itself rejected as a junior synonym.

Article 51. Citation of name of author. Use of parentheses in changed combination. It was agreed that the use of parentheses to enclose the name of the author of a species-group name in a changed combination should be abandoned since, while of some value in taxonomic works, it was of little value for other uses. Furthermore, misleading information was given when, as frequently happened, parentheses were wrongly omitted.

Article 55. Homonymy, Family-group names. It had been proposed that homonymy in family-group names caused by the similarity of the names of their type genera could be permitted when confusion was unlikely to be caused. However, the view of the meeting was that increased use of data bases made it important to avoid homonymy in family-group names, even when occurring in widely different animal groups.

Article 70(b). Types in the genus-group. Misidentified type species. Action to be taken on a misidentified type species required careful consideration since it was important to maintain the meaning of the genus at the time the misidentification was discovered. It was desirable to provide procedures which did not require action by the Commission in every case; a number of possible solutions could be recognised and should be carefully considered.

Article 75. Types in the species-group. Neotypes. A proposal had been submitted that when, even if types existed, it was not possible to solve a complex zoological problem, the Commission could set aside the status of the existing type material and that a provisionally designated neotype could be treated as the type while the case was under consideration. This proposal was supported.

Article 78(c). Effective date of Opinions. It was agreed that the words '... and are to be reported to the next succeeding Congress' could be omitted.

Article 78(d). Status of Opinions and Directions. It was proposed that simple corrections or completions of an Opinion on matters which did not alter the substance of a ruling could be published without the need for a vote by the Commission. The term 'Direction' for such corrections and completions could be discontinued. The title 'Supplementary Opinion' might be appropriate in cases which required formal action by the Commission.

Article 79. Plenary power. The meeting debated the merits (BZN 45: 45-46) of conserving the names of taxa while not suppressing specified senior names. It was pointed out that it would be wrong to prejudge the status of senior synonyms or homonyms that might exist, although unknown at that time.

Article 80(b). Status of case under consideration. Date when consideration is deemed to begin. It had been suggested that a case be deemed to be under consideration from the date of its receipt by the Executive Secretary, rather than from the date of publication in the BZN of its receipt. This change was not favoured since it was not until the BZN was published that the existence of the case could be generally known.

Article 80(c). Status of case under consideration. Existing usage. It had been suggested that the definition of 'existing usage' to be followed while a case was under consideration should be widened to enable an author to use any name he considered best served the purpose of zoological nomenclature. This suggestion was not favoured since it introduced an undesirable element of subjectivity. It was recognised, however,

that the present words 'the most common current usage' were not appropriate in a minority of cases.

Article 87(b). Interpretation of the Code. Status of Recommendations, Examples, Titles, Footnotes, and Appendices. A blanket proposal to include Recommendations, Examples, Titles, Footnotes and Appendices as part of the 'legislative' text of the Code was not supported since this would be tantamount to converting them to Requirements. It was, however, possible that some sections should be made mandatory, but these should be considered on an ad-hoc basis.

The term 'nomenclaturally valid'. A proposal to apply the term 'nomenclaturally valid' to denote a name whose nomenclatural credentials were beyond reproach had been published (BZN 43: 308–309 and 44: 131). The meeting favoured the use of this term.

5. IUBS pre-Assembly Biotaxonomy Workshop

A Workshop 'Whose Name? What Specimen?' had been held at Canberra, 12–14 October 1988, attended by 85 botanists and zoologists including the majority of members of the Section of Zoological Nomenclature. The objective of the Workshop was to provide a forum for learning and exchanging ideas about some major proposals to change the formal ways in which taxonomists are obliged, under the International Codes of Nomenclature, to deal with biological names.

The Workshop passed five resolutions [published as an Appendix to the report of the General Session of the Commission in BZN 46: 12–13] to be presented to the IUBS General Assembly. These resolutions were considered by the Section. As a result of formal voting on each resolution the meeting directed that the Chairman convey to the Assembly its endorsement of, and support for, the resolutions and urge their adoption by the General Assembly.

Case 2668

***Drepanites* Mojsisovics, 1893 and *Hyphoplites* Spath, 1922 (Mollusca, Cephalopoda): proposed conservation**

Earle E. Spamer & Arthur E. Bogan

Department of Malacology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, PA 19103, U.S.A.

Abstract. The purpose of this application is, by the suppression of the unused generic name *Drepanites* Benett, 1831, to conserve its junior homonym *Drepanites* Mojsisovics, 1893 and also its junior subjective synonym *Hyphoplites* Spath, 1922, each being the name of a Mesozoic ammonite genus.

1. The generic name *Drepanites* was first published in two works by Miss Etheldred Benett, both dated 1831. The first is *A catalogue of Wiltshire fossils* in Hoare (1822–1844), *A history of modern Wiltshire*. In this publication '*Drepanites, striatus*, n.g.' is listed (p. 121) under Testacea, without description, definition, illustration or indication. The generic and specific names are, therefore, nomina nuda.

2. Later in 1831, Miss Benett's work was reset and published with 18 plates in *A catalogue of the organic remains of the County of Wilts*. '*Drepanites, striatus*, n.g.' is listed (p. 3) with its locality (Chute Farm) and is illustrated in pl. 16, upper-left figure. The name is thus made available under Article 12(b) (7) of the Code, provided that the work is to be regarded as published under the Code.

3. On p. [i] of her reprinted work, Miss Benett stated: 'When this catalogue was first thought of, my geological friends expressed a wish that it should be published separately; but considering it a thing of mere local interest, I have preferred printing a few copies for the acceptance of my friends'. This does not, however, prove that the work could not have been obtained from the printer or the author by purchase or free distribution. The work is quite scarce; we have found only four copies in the U.S.A. One of the two copies at the Academy of Natural Sciences in Philadelphia was acquired by Thomas Wilson, who took the collection to Philadelphia.

4. Wright & Wright (1949, p. 481, footnote) reported that Dr L. F. Spath had pointed out to them that the plates were issued only with a reprint of the earlier catalogue and reserved for private circulation, and they concluded that the reprint was technically not a publication. However, the work is frequently referred to in British nineteenth century literature and many of the names in it are treated as available in standard works. In view of this and the uncertainty about the limited circulation it would be inappropriate to propose the suppression of the work as a whole. Taxa erected by Benett (1831b) have been used in the literature on the Porifera, Gastropoda and Bivalvia.

5. *Drepanites* Benett, 1831 appears in the literature in indexes and abstracts. It has never, so far as we are aware, been used as a valid name since its first publication. Férussac (1835, pp. 55–56) abstracted Benett's work, noting that she had erected *Drepanites striatus*; he thought that the figured specimen looked like an oyster. In

Sherborn's *Index Animalium* and Neave's *Nomenclator Zoologicus* the name is given as denoting a bivalve.

6. In 1893, Mojsisovics (p. 495) erected *Drepanites* as a subgenus of the fossil cephalopod genus *Arpadites* Mojsisovics, 1879, and included six named species, including *D. hyatti* Mojsisovics, 1893 (p. 495) which was subsequently designated type species by Diener (1915, p. 129). The generic name *Drepanites* Mojsisovics, 1893 is a well-established name in use today (a representative list of papers is held by the Secretariat).

7. Wright & Wright (1949, p. 481 footnote) wrote that it was clear from inspection of Benett's figure of *Drepanites striatus* 'that the fossil is, in fact, the cast of a body-chamber fragment of *Hyphoplites pseudofalcatus* Semenow, 1899'. We agree that *Drepanites* Benett, 1831 is a senior subjective synonym of *Hyphoplites* Spath, 1922 (p. 110), a name which is in current use (a representative list of papers is held by the Secretariat).

8. The unused name *Drepanites* Benett, 1831 poses a threat to the names of its junior homonym *Drepanites* Mojsisovics, 1893 and its junior subjective synonym *Hyphoplites* Spath, 1922. Similarly, the unused name *Drepanites striatus* Benett, 1831 poses a threat to its junior subjective synonym *Hyphoplites pseudofalcatus* Semenow, 1899.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to rule that *A catalogue of the organic remains of the County of Wilts.* by Benett (1831) is an available work;
- (2) to use its plenary powers:
 - (a) to suppress the name *Drepanites* Benett, 1831 for the purposes of both the Principle of Priority and the Principle of Homonymy;
 - (b) to suppress the name *striatus* Benett, 1831 as published in the binomen *Drepanites striatus* for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (3) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Drepanites* Mojsisovics, 1893 (gender: masculine), type species by subsequent designation by Diener (1915) *Arpadites (Drepanites) hyatti* Mojsisovics, 1893;
 - (b) *Hyphoplites* Spath, 1922 (gender: masculine), type species by original designation *Ammonites falcatus* Mantell, 1822;
- (4) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *hyatti* Mojsisovics, 1893 as published in the binomen *Arpadites (Drepanites) hyatti* (specific name of the type species of *Drepanites* Mojsisovics, 1893);
 - (b) *falcatus*, Mantell, 1822 as published in the binomen *Ammonites falcatus* (specific name of the type species of *Hyphoplites* Spath, 1922);
- (5) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Drepanites* Benett, 1831, as suppressed in (2) (a) above;
- (6) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *striatus* Benett, 1831, as published in the binomen *Drepanites striatus*, as suppressed in (2) (b) above;
- (7) to place on the Official List of Works Approved as Available for Zoological Nomenclature *A catalogue of the organic remains of the County of Wilts.* by E. Benett (1831).

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Case 2452

***Aphrodita imbricata* Linnaeus, 1767 (currently *Harmothoe imbricata*) and *Aphrodita minuta* Fabricius, 1780 (currently *Pholoe minuta*) (Annelida, Polychaeta): proposed conservation of the specific names**

Susan Chambers and David Heppell

Department of Natural History, National Museums of Scotland, Chambers Street, Edinburgh EH1 1JF, U.K.

Abstract. *Harmothoe imbricata* (Linnaeus, 1767) (POLYNOIDAE) and *Pholoe minuta* (Fabricius, 1780) (SIGALIONIDAE) are two commonly recorded scale worms of the North Atlantic. The specific name *imbricata* is threatened by the senior subjective synonym *Aphrodita lepidota* Pallas, 1766, and *minuta* is preoccupied by the senior primary homonym *Aphrodita minuta* Pennant, 1777.

1. Pallas described *Aphrodita lepidota* from the North Sea in 1766 (p. 94). Malmgren (1865, pp. 59 and 67) regarded the species as being based on an immature specimen of *Harmothoe imbricata* (Linnaeus, 1767), and McIntosh (1900, p. 326) was of the same view. Hornell (1891, p. 231) described from Liverpool Bay a variety of *H. imbricata* in which 'the inner black margins of the elytra to the eye appear to coalesce and thus give the animals the appearance of having a black back extending medianly from head to tail, being edged with a pale uncoloured margin on each side'. This fits the description given by Pallas perfectly and there seems little doubt that he was describing the same species. Although the synonymy of *A. lepidota* with *H. imbricata* has been accepted by all authors this century, none has used *lepidota* as the valid name despite its seniority by one year. Its acceptance now would needlessly disrupt the present nomenclatural stability and its suppression is therefore requested.

2. In 1767 (p. 1084) Linnaeus described *Aphrodita imbricata* based on material (whether a specimen or a drawing is uncertain) sent from Iceland by J. G. König. The species was later described as *A. violacea* by Ström (1768, p. 366). Müller (1771, pp. 180–184) published a lengthy description of the species based on an illustration sent by König and three specimens in alcohol received from Herr Zoega. He used the vernacular name 'die flache Aphrodite' but subsequently (1776, p. 218) named the species *Aphrodita cirrata*, placing *A. imbricata* in synonymy. Gmelin later (1791, p. 3108) called Müller's 'flache Aphrodite' *A. plana*.

3. Müller's name *cirrata* was used for nearly 100 years, usually in combination with the generic names *Polynoe* Lamarck, 1818 or *Lepidonotus* Leach, 1816, until Malmgren (1865, p. 66) recognised its synonymy with *imbricata* Linnaeus, 1767. He reinstated the earlier name (of Linnaeus, 1767 rather than *lepidota* of Pallas, 1766) which soon passed into general usage. Recent important works in which *imbricata* (in combination with *Harmothoe* Kinberg, 1855) is used include Pettibone (1963), Hartmann-Schröder (1971), and Tebble & Chambers (1982). A list of seven other references by seven different authors is held by the Commission Secretariat.

4. Pennant (1777, p. 38) recorded *Aphrodita lepidota* from Anglesey, citing the reference to Pallas (1766) but renaming it *A. minuta*. Johnston (1865, p. 118) included *A. minuta* Pennant among those which 'have been indicated as British species, but from the imperfect notices given, they can neither be defined, nor identified with foreign species that bear the same names'. *A. minuta* Pennant has not been used since its original description as the name for any species; in 1959 Hartman (p. 52) referred it (as *A. lepidota minuta*) to the synonymy of *A. imbricata*. It is a senior primary homonym of *A. minuta* Fabricius (see paragraph 5 below) and its acceptance now would upset nomenclatural stability, and its suppression is therefore requested.

5. In 1780 (pp. 313 and 314) Otto Fabricius gave detailed descriptions of two sigalionids from the Arctic: *Aphrodita longa* Müller, 1776 and *A. minuta* Fabricius, 1780. Müller's brief description (1776, p. 218) would probably be unrecognisable at the species level but he indicated that his material came from Fabricius, and the species has always been interpreted from Fabricius' *Fauna Groenlandica* (1780). Malmgren (1865, p. 91) believed *A. minuta* Fabricius to be based on small specimens of *A. longa* but chose to use the junior name *minuta* for both. (In fact, his figure of '*minuta*' (pl. 11, fig. 13) is a specimen of *longa*). All recent authors have accepted *A. minuta* Fabricius as the common North Atlantic species of *Pholoe* Johnston, 1839 (p. 428; type species *P. inornata* Johnston, 1839, p. 437) from British waters. Most authors this century have regarded *minuta* Fabricius as the valid name of *inornata*, although McIntosh (1900, p. 437) did mention some differences.

6. The taxonomy of *Pholoe* is currently under revision; *P. longa* is now known to be a separate species (S. Chambers, in preparation) and *P. minuta* auctt. has proved to be a complex of several species (Chambers, 1985; Chambers & Muir, in press).

7. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the following specific names:
 - (a) *lepidota* Pallas, 1766, as published in the binomen *Aphrodita lepidota*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) *minuta* Pennant, 1777, as published in the binomen *Aphrodita minuta*, and all other uses of this name before the publication of *minuta* Fabricius, 1780, for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *imbricata* Linnaeus, 1767, as published in the binomen *Aphrodita imbricata*;
 - (b) *minuta* Fabricius, 1780, as published in the binomen *Aphrodita minuta*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the following names:
 - (a) *lepidota* Pallas, 1766, as published in the binomen *Aphrodita lepidota*, and as suppressed in (1)(a) above;
 - (b) *minuta* Pennant, 1777, as published in the binomen *Aphrodita minuta* and as suppressed in (1)(b) above.

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Case 2603

GRYLLACRIDOIDEA Stål, 1874 (Insecta, Orthoptera): proposed precedence over STENOPELMATOIDEA Burmeister, 1838

K. H. L. Key

Division of Entomology, C.S.I.R.O., G.P.O. Box 1700, Canberra, A.C.T. 2601, Australia

Abstract. The purpose of this application is to conserve the name GRYLLACRIDOIDEA Stål, 1874 (first used at the superfamily level by Zeuner, 1935) by giving family-group names based on *Gryllacris* Audinet-Serville, 1831 precedence over family-group names based on *Stenopelmatus* Burmeister, 1838.

1. Burmeister (1838, p. 720) published the name STENOPELMATIDAE, type genus *Stenopelmatus* Burmeister, 1838 (p. 720), and 36 years later Stål (1874, p. 4) published GRYLLACRIDIDAE with type genus *Gryllacris* Audinet-Serville, 1831 (p. 138). For some reason the priority of STENOPELMATIDAE was completely overlooked until Kevan (1982), all authors proceeding on the tacit assumption that priority rested with GRYLLACRIDIDAE. However, this misapprehension gives rise to nomenclatural consequences only when *Stenopelmatus* and *Gryllacris* are included in the same family-group taxon. This has happened in two ways.

2. A number of authors downgraded STENOPELMATIDAE and GRYLLACRIDIDAE to subfamily rank within a single family, for which they invariably used the name GRYLLACRIDIDAE. Examples are: Hubbell (1936, pp. 24–25); Karny (1937, pp. 35–36; the principal world authority on the group); Zeuner (1939, pp. 59–64; a leading insect palaeontologist); Borror & White (1970, p. 82); and Daly, Doyen & Ehrlich (1978, p. 82).

3. On the other hand, Zeuner (1935, p. 108) retained family rank for the two taxa and included them in a superfamily GRYLLACRIDOIDEA (the correct form of his 'Gryllacridioidea'). This name, or its equivalent (e.g. 'Gryllacridides' Beier, 1955 (pp. 240–242)), has been used in at least the following major compendia (for details see references).

1949. *Traité de Zoologie* (Ed. Grassé) — the major work in the French language, p. 651.

1951. *Faune de France*, p. 170.

1953. *Traité de Paléontologie* (Ed. Piveteau), p. 469.

1955. *Bronns Klassen und Ordnungen des Tierreichs* — one of the major works in the German language, p. 240.

1955. *South African Animal life* (Eds. Hanström, Brinck & Rudebeck), p. 285.

1970. *The Insects of Australia* (C.S.I.R.O.), p. 331.

1977. *Imms' General Textbook of Entomology* (Ed. 10) — perhaps the best-known textbook of entomology in English, p. 544.

1978. *Biogeography and Ecology of Southern Africa* (Ed. Werger), p. 744.

The authors of the relevant contributions in the above works include the leading authorities L. Chopard, M. Beier, D. Laurentiaux and O. W. Richards. In addition,

GRYLLACRIDOIDEA has been used in various smaller works on the Orthoptera, including those of Kevan (1977, pp. 22 & (19)) and of Rentz (1980, p. 49; 1986, p. 232).

4. Kevan (1982, p. 354) introduced the superfamily name STENOPELMATOIDEA, stating merely '(= Gryllacridoidea)'. Vickery & Kevan (1983, pp. 311, 313) sought to justify this substitution by pointing out the priority of the name STENOPELMATIDAE (1838) over GRYLLACRIDIDAE (1874) — these names being 'coordinate' with the corresponding superfamily names. While they cited the International Code as their authority, they ignored those provisions of the Code that explicitly limit the operation of the Principle of Priority, i.e. the Preamble, Article 23b, and Article 79. The circumstances of this case bring it very clearly within the scope of those provisions.

5. To accept STENOPELMATOIDEA (or any other superfamily name) as a substitute for GRYLLACRIDOIDEA would be to overturn the extensive usage of 50 years of work on the systematics, palaeontology, and biology of the Orthoptera-Ensifera, in the interest of a name wholly unused prior to 1982. The situation is particularly serious because of the high categorical rank of the names concerned. This sort of name-changing does nothing for science, confuses the users of the names and conflicts with relevant provisions of the Code: it is quite clear that (in the terms of Article 23b) 'the application of the Principle of Priority [in this case] would disturb stability or universality or cause confusion'. Although presumably Kevan did not 'consider' this to be the case, it is open to a later author to come to that conclusion. Accordingly, I now request the International Commission on Zoological Nomenclature to conserve the name GRYLLACRIDOIDEA. In doing so, I note that 'use of a name contrary to the purpose of the Principle of Priority [i.e. of STENOPELMATOIDEA since 1982] . . . will not be accepted as usage unless the Commission is satisfied that special circumstances justify such acceptance' (Art. 79c (2)(i); and that 'when a case is under consideration by the Commission, existing usage is to be maintained . . .' (Art. 80a), 'existing usage' being defined as 'the most common current usage' (Art. 80c).

6. It remains to consider what is the most appropriate means for conserving GRYLLACRIDOIDEA. As mentioned above, some authors have included subfamilies STENOPELMATINAE and GRYLLACRIDINAE in a family GRYLLACRIDIDAE. For these reasons the ruling should not be restricted to the superfamily level; it is of course not possible to suppress any of the family-group names while retaining *Gryllacris* and *Stenopelmatus* (which are both already on the Official List of Generic Names).

7. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the family-group name GRYLLACRIDIDAE Stål, 1874 and other family-group names based on *Gryllacris* Audinet-Serville, 1831 are to be given precedence over STENOPELMATIDAE Burmeister, 1838 and other family-group names based on *Stenopelmatus* Burmeister, 1838, whenever those genera are placed together in any taxon of the family group;
- (2) to place the following names on the Official List of Family-Group Names in Zoology;
 - (a) GRYLLACRIDIDAE Stål, 1874 (type genus *Gryllacris* Audinet-Serville, 1831), with the endorsement that it and other family-group names based on *Gryllacris* are to be given precedence over STENOPELMATIDAE Burmeister, 1838 (type genus *Stenopelmatus* Burmeister, 1838) and other family-group names based on *Stenopelmatus* whenever those genera are placed together in any taxon of the family group;

- (b) STENOPELMATIDAE Burmeister, 1838 (type genus *Stenopelmatus* Burmeister, 1838), with the endorsement that it and other family-group names based on *Stenopelmatus* are not to be given priority over GRYLLACRIDIDAE Stål, 1874 (type genus *Gryllacris* Audinet-Serville, 1831), and other family-group names based on *Gryllacris* whenever those genera are placed together in any taxon of the family group.

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Case 2646

***Ptochus* Schönherr, 1826 (Insecta, Coleoptera): proposed conservation by confirmation of Marshall's (1916) designation of *Ptochus porcellus* Boheman in Schönherr, 1834 as the type species**

R. T. Thompson

Department of Entomology, British Museum (Natural History), London SW7 5BD, U.K.

Abstract. The purpose of this application is to conserve the name *Ptochus* Schönherr, 1826 for a weevil genus, by setting aside an overlooked and inadvertent type designation of a misidentified species. In addition the Commission is asked to confirm Marshall's (1916) designation of *Ptochus porcellus* Boheman in Schönherr, 1834 as type species. This is in accordance with current usage.

1. *Ptochus* Schönherr is a genus of some sixty species which occur mainly in the Palaearctic and western Oriental Regions. It is included in each of Schönherr's three major works on the CURCULIONIDAE. The first of these is his catalogue of 1823. Here (column 1144) the name appears without a description and the two included species, *Ptochus porcellus* (Schönherr in litt.) (type) and *Omius grandicornis* Dejean, (1821, p. 96) are both nomina nuda. In his larger work of 1826, the same type designation is proposed on p. 15 and repeated, after a generic description, on p. 188. This would have validated both *Ptochus* and *porcellus* (as type) under Article 12b (6) of the Code (combined description) but Schönherr then adds: 'Ejusdem generis est: Curc. inustus Steven seu Omius grandicornis Dej.'. Steven's name is available, having been validly published by Germar (1824, p. 453) in the genus *Polydrusus*, where it stands today. Thus, contrary to Schönherr's intention, under Article 68d of the Code, the type species of *Ptochus* is *Polydrusus inustus* Germar by monotypy.

2. In Schönherr's third and major work (1834, pp. 481 et seq.) *Ptochus porcellus* (p. 483, described by Boheman) and ten other species are described but no type designation is made. *Omius grandicornis* Dejean appears in the synonymy of *Ptochus bisignatus* Boheman in Schönherr but *Polydrusus inustus* Germar is listed under *Polydrusus* (as *Polydrosus*) (p. 153), with a footnote: 'Mihi invisus'. The synonymy, first published by Dejean (1821, p. 96), of *inustus* ('Russia mer.') and *grandicornis* ('Dalmat.') was clearly based on a misidentification of the former species.

3. The only other type species designation for *Ptochus* is that of Marshall (1916, p. 259) who cites *P. porcellus* Boheman, in accordance with Schönherr's intention and in conformity with all subsequent usage.

4. From the above, it is clear that there is an overwhelming case for nullifying Schönherr's inadvertent type species designation of 1826. Otherwise *Ptochus* will sink as a synonym of *Polydrusus*; both it, and the family-group name based upon it (Reitter, 1913, p. 12), will have to be replaced, causing considerable confusion.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all designations of type species for the nominal genus *Ptochus* Schönherr, 1826, prior to that by Marshall (1916) of *Ptochus porcellus* Boheman in Schönherr, 1834;
- (2) to place on the Official List of Generic Names in Zoology the name *Ptochus* Schönherr, 1826 (gender: masculine), type species by subsequent designation by Marshall (1916) *Ptochus porcellus* Boheman in Schönherr, 1834;
- (3) to place on the Official List of Specific Names in Zoology the name *porcellus* Boheman in Schönherr, 1834, as published in the binomen *Ptochus porcellus* (specific name of the type species of *Ptochus* Schönherr, 1826).

Acknowledgement

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Case 2680***Euribia jaceana* Hering, 1935 (currently *Urophora jaceana*; Insecta, Diptera): proposed precedence over *Euribia conyzae* Hering, 1933**

I. M. White

CAB International Institute of Entomology, 56 Queen's Gate, London SW7 5JR, U.K.

P. Harris

Agriculture Canada Research Station, 5000 Wascana Parkway, P.O. Box 440, Regina, Sk., S4P 3A2, Canada

Abstract. The purpose of this application is to request that the well known name of the knapweed gall fly, *Euribia jaceana* Hering, 1935, be given precedence over *E. conyzae* Hering, 1933, by any author who considers these nominal species to be synonyms.

1. Hering (1933, p. 309) described *Euribia conyzae*, based on a pair of specimens found *in copula* on a capitulum of *Inula conyza* (Asteraceae, Inuleae); in the title of the paper the spelling 'conyrac' was used, but as the name of the fly was later given as *conyzae* (p. 310), after the plant on which the syntypes were collected, the name *conyzae* was clearly intended by Hering (Article 32c). Hering separated *conyzae* from other species of *Euribia* Meigen, 1800 (now known as *Urophora* Robineau-Desvoidy, 1830, following the suppression of Meigen's *Nouvelle Classification des Mouches à Deux Ailes* in Opinion 678) by a wing pattern character which subsequent examination (by I.M.W.) has shown to be an aberrant feature that only applies to one wing of the female syntype. One of us (I.M.W.) has dissected the aculeus of the female syntype and found it to be indistinguishable from that of *jaceana* Hering, 1935; the name *conyzae* is therefore a senior subjective synonym of *jaceana*.

2. Hering (1935, p. 169) described *Euribia jaceana* in detail, and the original description included photographs of the typical wing pattern and the gall formed within the capitulum of *Centaurea jacea* (Asteraceae, Cardueae). The description of *jaceana* was based on a long reared series, and one of us (I.M.W.) has dissected the aculeus from some female syntypes and from specimens reared from other *Centaurea* species. Hering (1940, p. 1) supplemented the original description by illustrating the aculeus tip of *jaceana*, and this was the first use of this character, which is essential for the accurate identification of *Urophora* species.

3. The name *jaceana* has been widely used for the knapweed gall fly, whereas *conyzae* is only mentioned in the original description and, as a name, in a recent catalogue (Foote, 1984, p. 141). Furthermore, the name *jaceana* was used for the knapweed gall fly in one of the earliest life table studies (Varley, 1947), which has subsequently been described as an example of the application of the life table technique in a student ecology textbook (Varley, Gradwell & Hassell, 1973, p. 96). One of us (P.H.) has used the name *jaceana* in a proposal (presented to Canadian authorities) for the deliberate

introduction of the knapweed gall fly into western Canada for the biological control of *Centaurea* subgenus *Jacea* species, such as *C. (J.) nigra*. Other important uses of the name *jaceana* include the following:

Hering (1936), biological notes;

Varley (1937), larval description;

Shewell (1961), occurrence of an adventive population in eastern North America;

White & Clement (1987), taxonomic separation from other European species of *Urophora* introduced into North America for the biological control of thistles and knapweeds (Asteraceae, tribe Cardueae).

4. Although the availability of a name is not affected by it being inappropriate (Article 18), the following supplementary information is presented to the Commission. The name *conyzae* is inappropriate because it implies an association with either *Inula conyza* (Asteraceae, tribe Inuleae) or *Conyza* species (Asteraceae, tribe Astereae), neither of which has ever been shown to be a larval host of the knapweed gall fly; such confusion may be detrimental to plans for the use of this fly as a biological weed control agent, because non-specialists could assume from the name *conyzae* that the fly can attack some plants unrelated to the target weed. The name *jaceana* is appropriate because the larvae of the fly are only known to develop in the capitula of *Centaurea jacea* and some other species of *Centaurea* subgenus *Jacea*; the name *jaceana* is therefore descriptive of the habits of the knapweed gall fly.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *jaceana* Hering, 1935, as published in the binomen *Euribia jaceana*, is to be given precedence over the specific name *conyzae* Hering, 1933, as published in the binomen *Euribia conyzae*, whenever these names are considered synonyms;
- (2) to place on the Official List of Specific Names in Zoology the names:
 - (a) *jaceana* Hering, 1935, as published in the binomen *Euribia jaceana*, with an endorsement that it is to be given precedence over *conyzae* Hering, 1933, as published in the binomen *Euribia conyzae*, whenever these names are considered synonyms;
 - (b) *conyzae* Hering, 1933, as published in the binomen *Euribia conyzae*, with an endorsement that it is not to be given priority over *jaceana* Hering, 1935, as published in the binomen *Euribia jaceana*, whenever these names are considered synonyms.

Acknowledgement

We are grateful to A. C. Pont, British Museum (Natural History), for allowing one of us (I.M.W.) to dissect female syntypes of *Urophora jaceana* and *U. conyzae*.

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Case 2674

***Monograptus exiguus* (Graptolithina): proposed conservation of accepted usage by the citation of Lapworth (1876) as author**

D. K. Loydell

*Department of Geology, University College of Wales, Aberystwyth, Dyfed,
SY23 3DB, Wales*

Abstract. The purpose of this application is to conserve the accepted usage of the Silurian graptolite name *Monograptus exiguus* by the citation of Lapworth (1876) as author, and not Nicholson (1868) who originally established the name.

1. Nicholson (1868, p. 533, pl. 19, figs. 27–28) described *Graptolites lobiferus* Var. β *exiguus* from the Coniston Flags (Silurian) of Skelgill Beck in the Lake District of Northern England.

2. Lapworth (1876, p. 503, pl. 20, figs. 6a–b) described specimens which he called *Monograptus exiguus* Nicholson and illustrated one specimen from beds of the Gala Group at Caddonfoot, South Scotland. Lapworth's specimens, however, are of a different and stratigraphically younger species than the specimens described and illustrated by Nicholson.

3. Elles & Wood (1913, pp. 453–454, pl. 46, figs. 1a–d), in their *Monograph of British Graptolites*, used Lapworth's specimens for their description and figures of *Monograptus exiguus*. This monograph became the standard guide for graptolite identification for the following 50 years, and is still widely used.

4. All subsequent references to *Monograptus exiguus* are, where correct, to *M. exiguus* sensu Lapworth. A representative list of papers is held by the Secretariat. This includes references from China, U.S.S.R. and several European countries, indicating the degree of international agreement on the identification of Lapworth's species. Although virtually all workers cite Nicholson as the author of the species, none have based their identifications on his description.

5. Strachan (1971, p. 54), in his *Synoptic Supplement to the Monograph of British Graptolites*, which gives details of all known British graptolite type specimens, states that Nicholson's *exiguus* type specimen is 'unlikely to be recognised'. Benton (1979, p. 73), in his catalogue of Nicholson's type and figured material, suggested that specimen BMNH Q96 (in the British Museum (Natural History)) might be Nicholson's figured specimen. This has been examined by me and is a specimen of *Monograptus lobiferus* (McCoy, 1850) s.s.

6. Lapworth's illustrated specimen of *M. exiguus* was identified by Elles & Wood (1913, explanation of pl. 46) as housed in the University of Birmingham. Strachan (1971, p. 93) gave it the registration number BU 1654. I hereby designate this specimen as the lectotype of *Monograptus exiguus* Lapworth, 1876.

7. To use the name *Monograptus exiguus* in any sense other than that used by Lapworth would cause considerable nomenclatural confusion, especially in view of its wide international acceptance.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the subspecific name *exiguus* Nicholson, 1868, as published in the combination *Graptolites lobiferus* Var. β *exiguus*, and all other uses of that name before its publication by Lapworth (1876), for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *exiguus* Lapworth, 1876, as published in the binomen *Monograptus exiguus*, and as defined by the lectotype designated in para. 6 above;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *exiguus* Nicholson, 1868, as published in the combination *Graptolites lobiferus* Var. β *exiguus* and as suppressed in (1) above.

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Case 2681

***Heliastes ovalis* F. Steindachner, 1900 (currently *Chromis ovalis*; Osteichthyes, Perciformes): proposed conservation of the specific name**

W. I. Follett

Department of Ichthyology, California Academy of Sciences, Golden Gate Park, San Francisco, California 94118, U.S.A.

John E. Randall

Bernice Pauahi Bishop Museum, P.O. Box 19000-A, Honolulu, Hawaii 96817, U.S.A.

Abstract. The purpose of this application is the conservation of the well-known and widely-used name *Chromis ovalis* (F. Steindachner), 1900 for the Oval Chromis, a damselfish from Hawaii. Steindachner had in 1866 published *Chromis ovalis* as the name of an African cichlid, but this name has long been regarded as invalid and the two species have never been classified together in *Chromis*.

1. The name *Chromis ovalis* (Steindachner, 1900) is currently, and for many years has been universally, applied to a well-known endemic Hawaiian marine damselfish of the family POMACENTRIDAE. This name, originally published as *Heliastes ovalis*, is a junior secondary homonym of *Chromis ovalis* Steindachner, 1866, the name of an African cichlid, which was transferred to *Tilapia* Smith, 1840 by Boulenger (1899, p. 119), and which is now regarded as a junior subjective synonym of *Haplochromis moffati* Castelnau, 1861 in accordance with the revision by Regan (1922, p. 257). Both *Tilapia* and *Haplochromis* are freshwater genera of the family CICHLIDAE. The species *Chromis ovalis* Steindachner, 1866 and *Heliastes ovalis* Steindachner, 1900 have never been classified together in the genus *Chromis*, but under Article 59b of the Code the 1900 specific name is invalid.

2. Jenkins (1903, p. 458) transferred *H. ovalis* to *Chromis*, and *C. ovalis* was used thereafter. Whitley (1929, p. 55) suggested that the junior subjective synonym *C. velox* Jenkins, 1901 (p. 393) be used instead of *C. ovalis* because of the formal problem of secondary homonymy. The name *velox* has been so used in only four publications: Fowler (1931, p. 351; 1938, pp. 235, 291), Tinker (1944, p. 279) and von Wahlert (1955, p. 324). Thus *Chromis velox* has remained unused for 33 years and both Fowler and Tinker later adopted *ovalis* (see below).

3. The widespread usage of *Chromis ovalis* for the damselfish includes the following 22 publications: Allen (1975, pp. 87, 89), Brock (1980, p. [321]), Fowler (1940, p. 784), Gosline (1965, p. 824), Gosline & Brock (1960, pp. 212, 331), Hobson (1972, pp. 717, 721, 728; 1974, pp. 984-985), Hobson & Chave (1972, p. 50), Hourigan & Reese (1987, table 3), Jordan & Evermann (1973, pp. 200-201, fig. 114), Masuda & Allen (1987, p. 295), Miller *et al.* (1979, pp. 69, 179), Nelson (1967, p. 290), Randall (1981, fig. 91;

1985, p. 34), Randall & Swerdloff (1973, pp. 329, 341–343), Swerdloff (1970a; 1970b, p. 374), Taylor ([1982], p. 11), Tinker (1978 and 1982, p. 278) and Walsh (1987, tables 1–2, figs 4, 6). The holotype of *C. ovalis* (Steindachner, 1900) is in the Überseemuseum in Bremen, and was illustrated by von Wahlert (1955, fig. 2).

4. Under Article 59b of the Code the specific name *ovalis* Steindachner, 1900 is invalid because its replacement had been proposed before 1961 (Whitley, 1929, p. 55). However, as explained above, the junior subjective synonym *velox* has not gained acceptance and its substitution now for *ovalis* would be an unnecessary and unjustified cause of confusion.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *ovalis* Steindachner, 1900 (p. 502), as published in the binomen *Heliastes ovalis*, is not invalid by reason of having been rejected before 1961 as a junior secondary homonym of *Chromis ovalis* Steindachner, 1866;
- (2) to place on the Official List of Specific Names in Zoology the name *ovalis* Steindachner, 1900, as published in the binomen *Heliastes ovalis* Steindachner, 1900 (not invalid despite having been rejected before 1961 as a junior secondary homonym).

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Case 2527

***Heteronota pelagica* Girard, 1857 (currently *Gymnodactylus*, *Cryptodactylus* or *Nactus pelagicus*; Reptilia, Sauria): proposed conservation of the specific name**

George R. Zug

*Department of Vertebrate Zoology, National Museum of Natural History,
Smithsonian Institution, Washington, DC 20560, U.S.A.*

Abstract. The purpose of this application is the conservation of the widely used specific name of a common gekkonid lizard of the Pacific basin. A slightly older synonym, *arnouxii* Duméril, 1851, was unused in the period 1914–1983 and the lizard does not occur in the given type locality ‘New Zealand’.

1. A. Duméril (Duméril & Duméril, 1851, p. 44) described a lizard ‘from New Zealand’ as *Gymnodactylus arnouxii*. This name never obtained common usage, because the gecko bearing it does not occur in New Zealand.

2. From 1914 until 1983 *arnouxii* was mentioned only four times. After Roux (1913) the name was not applied to a known population of geckos until it was resurrected by Kluge (1983, p. 470). Guibé (1954) listed *arnouxii* as a type specimen ‘from New Zealand’; he did not give any synonym. McCann (1955, p. 17) stated: ‘There is no authentic evidence to support the occurrence of *G. arnouxii* within the limits of the fauna [of New Zealand], and accordingly I exclude it’. Wermuth (1965, p. 48) listed it as ‘?*Gymnodactylus arnouxii*’, and did not use it as valid for a taxon, while Iverson (1978) also simply included it in a list of names. Thus, by the criteria of Article 79c, *arnouxii* was an unused name and its introduction in 1983 was contrary to Article 23b.

3. In a review of gekkonid relationships Kluge (1983, p. 470) rediscovered the holotype of *Gymnodactylus arnouxii* and found it indistinguishable from *Heteronota pelagica* Girard, 1857 (p. 197). He included the taxon in his new genus *Nactus* as *N. arnouxii*, and found ‘no justification for continuing to use’ *pelagica*. I strongly disagree with this proposal to replace the commonly used *pelagica* by an almost unused name with a type specimen with a ‘type locality’ where it does not occur.

4. Since Girard (1857) described the Pacific naked-toed gecko from Fiji as *Heteronota pelagica* this specific name has been used in many technical papers, and also popular literature such as field guides, in combination with the generic names *Cryptodactylus* or *Gymnodactylus*. As examples one may give de Rooij (1915), Brown (1956), Kluge (1963, 1967), Cogger (1975), Zweifel (1976), Cameron, Cogger & Heatwole (1978) and Amerson et al. (1982), and a further list has been supplied to the Commission Secretariat. Because of the commonness of this lizard it is familiar to Pacific area biologists.

5. Moritz & King (1985) and Moritz (1987), who followed Kluge (1983) in using the name *arnouxii*, showed that the populations in Australia, New Guinea, the Solomons and northern Vanuatu are bisexual, whereas those in New Caledonia, Fiji, Samoa,

southern Vanuatu and the Cook islands are unisexual and parthenogenetic; they proposed that the unisexual populations are of hybrid origin. This information supports the conservation of *pelagica*, because its precise type locality is Fiji, whereas that of *arnouxii* is not known. Kluge (1983) suggested New Caledonia as the likely provenance of the type specimens, so that both names apply to the all-female parthenogenetic species. If necessary, junior synonyms are already available for the bisexual populations (e.g. *multicarinata* for Vanuatu, *arfakianus* and two other names for New Guinea, *eboracensis* for Australia).

6. The International Commission on Zoological Nomenclature is accordingly requested:

- (1) to use its plenary powers to suppress the specific name *arnouxii* A. Duméril, 1851, as published in the binomen *Gymnodactylus Arnouxii*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *pelagica* Girard, 1857, as published in the binomen *Heteronota pelagica*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *arnouxii* A. Duméril, 1851, as published in the binomen *Gymnodactylus Arnouxii*, and as suppressed in (1) above.

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I wish to thank J. Carr, R. Crombie and W. R. Heyer for editorial advice.

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Comment on the proposal to designate a new type species for *Septotrochammina* Zheng, 1979 (Foraminiferida)

(Case 2449; see BZN 45: 186–187)

F. T. Banner

Department of Palaeontology, British Museum (Natural History), London, SW7 5BD, U.K.

1. The case is very clearly put by Loeblich & Tappan to justify the opinion which they have published before (1985, 1988). However, it does not merit further support. The ICZN is asked to confirm a re-identification, by others, of the illustrations of a specimen supposedly misidentified by the author who drew it, in order to set aside its originally given name and also to set aside the designation of the species which should carry that name as a type-species, and to replace that species with another, as a new type-species. This is too complex a procedure to follow in order merely to justify a subjectively reached, albeit recently published conclusion; the plenary power of the Commission should be used only if failure to use it would seriously destabilise nomenclature (Article 79a). In the particular case considered here, no such destabilisation follows if the other Articles of the Code are adhered to, and no plenary power need be invoked.

2. The case is essentially a very simple one. The new species names validly published (1876) by Terquem were based on specimens no longer extant; neotypes were validly proposed by Levy et al. (1975). Among them was a neotype from the beach at Gravelines, France, for *Patellina plicata* Terquem; this specimen was competently described and photographed, in a well-known, widely circulated, non-commercial, scientific journal and it is now securely curated in a national museum. Four years later, when describing foraminifera from the Chinese coast, Zheng (1979) designated *Patellina plicata* Terquem as type species of her new genus *Septotrochammina*. If Levy et al. (1975) were correct in their opinion that *P. plicata* Terquem should now be referred to the genus *Remaneica* Rhumbler, 1938 (an opinion apparently supported by Loeblich & Tappan (1988), inter alia) then *Septotrochammina* Zheng, 1979, is a junior synonym of *Remaneica*.

3. Independently, Brönnimann et al. (1983), in an international, non-regional review of the Trochamminacea, proposed the new genus *Remaneicella*, designating *Remaneica gonzalezi* Seiglie, 1964, as its type species; *R. gonzalezi*, from the coast of Venezuela, was also competently described and illustrated in a reputable journal and its type-specimens are also securely curated (University of Cumaná).

4. Loeblich & Tappan (1988) believe that Zheng (1979) had specimens from the Chinese coast which should have been referred to the species *gonzalezi* Seiglie rather than to the species *plicata* Terquem. We do not have Zheng's post-1979 opinion on this. Although Loeblich & Tappan (1988) may be correct in their judgement that the specimen Zheng (1979) drew was congeneric with *Remaneicella*, it is doubtful if the specimen was conspecific with *R. gonzalezi*; Zheng drew her specimen as having a spiral side of slowly enlarging, narrow chambers (about three times as long as high), whereas Seiglie (1964) depicted his *R. gonzalezi* as having a spiral side of rapidly enlarging, wide chambers (in height equal to, to twice as high as, their length). The identity in the species-group of Zheng's specimens is doubtful.

5. Application of the Code, without involving any plenary powers by the Commission, would result in regarding:

- (a) *Septotrochammina* Zheng, 1979, type species *Patellina plicata* Terquem, 1876, as a junior synonym of *Remaneica* Rhumbler, 1938, type species *Remaneica helgolandica* Rhumbler, 1938;
- (b) *Remaneicella* Brönnimann, Zaninetti and Whittaker, 1983, type species *Remaneica gonzalezi* Seiglie, 1964, as valid; and
- (c) the specimens misnamed *Septotrochammina plicata* (Terquem) by Zheng (1979) as *Remaneicella* sp. until they are restudied and, perhaps, renamed.

Comments on the proposed order of precedence of the family-group names ACRIDIDAE, OEDIPODIDAE and LOCUSTIDAE (Insecta, Orthoptera)

(Case 2568; see BZN 45: 191–193)

(1) R. F. Chapman

201 Wellman Hall, Berkeley, California 94720, U.S.A.

As an entomologist who works on the fringes of grasshopper taxonomy, I am particularly concerned that the common usage of family-group names should be retained, which is that ACRIDIDAE has precedence over OEDIPODIDAE. That in turn should have precedence over LOCUSTIDAE (a name which in the past has been used in the sense of TETTIGONIIDAE).

The citation of LOCUSTINAE with a tribe OEDIPODINI in the ACRIDIDAE, as Harz (1975) has done, is likely to lead to enormous confusion if generally adopted. I urge that the recommendations by Key in BZN 45: 192–193 be adopted.

(2) A comment in support of the application has been received from Norman B. Tindale (2314 Harvard Street, Palo Alto, California 94306, U.S.A) and another from R. E. Blackith (Zoology Department, Trinity College, Dublin-2, Ireland).

(3) I. M. Kerzhner

(Zoological Institute, Academy of Sciences of the U.S.S.R., Leningrad 199034, U.S.S.R.).

Some details of Key's application (BZN 45: 191–193) need correction. The reference for LOCUSTIDAE should be W. Kirby (1825, p. 432), since the 'Locustariae' of Latreille (1802, p. 277) was based on *Locusta* sensu Geoffroy (1762), that is on *Gryllus* (*Tettigonia*) Linnaeus, 1758 and not on *Gryllus* (*Locusta*) Linnaeus [see note below by P. K. Tubbs].

The name *Acrydium* was introduced by Geoffroy (1762, p. 390) in a work which in 1954 was suppressed for nomenclatural purposes (Opinion 228). Together with other names it was next published by Müller (1764, p. xvii) in a table comparing Geoffroy's names with those published by Linnaeus. I have previously pointed out (BZN 38: 6–7) that such names have under the Code (Articles 50 and 51) the authorship Geoffroy in Müller, 1764, unless (as in 15 cases) the Commission has ruled them to be available from Geoffroy, 1762. The type species of *Acrydium* is *Gryllus* (*Locusta*) *stridulus*

Linnaeus, 1758 (p. 432) by the designation of Latreille (1810, pp. 249, 433), so it is a senior objective synonym of *Psophus* Fieber, 1853, which was placed on the Official List of Generic Names in Opinion 149 (1943).

Under Article 33 of the Code *Acridium* Müller, 1776 (p. 100) is an incorrect subsequent spelling of *Acrydium* Geoffroy in Müller, 1764, and the first publication of *Acridium* as an available emendation is by Illiger (1801, p. 126).

Acknowledgement

I thank A. V. Gorokhov (Leningrad) for his assistance.

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(4) P. K. Tubbs

Executive Secretary, International Commission on Zoological Nomenclature

In his comment above Dr Kerzhner has pointed out that the family-group name 'Locustariae' of Latreille (1802, p. 277) is not based on *Locusta* Linnaeus, 1758 (p. 431) but on *Tettigonia* Linnaeus, 1758 (p. 429); the same was suggested by Dr Key in correspondence with the Secretariat and also by Vickery & Kevan (1983, pp. 310, 689, 691). Inspection of the Linnaean species included by Latreille (1802) in his genus *Locusta* shows this to be the case, and later (1807) Latreille made his concepts of *Locusta* and *Acrydium* and their families explicitly clear: on p. 100: 'Genus LOCUSTA. Sauterelle. *Locusta* Geoff., de Geer, Fab., Oliv., Lam.,—*Gryllus* (*Tettigonia*) Linnaei'; on p. 104: 'Genus ACRYDIUM. Criquet. *Acrydium* Geoff., de Geer, Oliv., Lam.,—*Gryllus* (*Locusta*) Linn.' The *Locusta* of Latreille (and others) is thus a junior homonym of *Locusta* Linnaeus (type species much later fixed, in Opinion 158, as *Gryllus* (*Locusta*) *migratorius* Linnaeus, 1758), and 'Locustariae' is an invalid synonym of TETTIGONIDAE Krauss, 1902 (p. 541). It is important that W. Kirby (1825, p. 432) be taken as the author of family-group names based on *Locusta* Linnaeus, or the 'havoc and confusion' to which Kirby himself referred (p. 430) will continue yet more. It was this confusion that led to the now accepted placing of Linnaeus' *Locusta* species in the OEDIPODIDAE by Walker (1870), who used LOCUSTIDAE in the tettigoniid sense of Latreille (and had ACRIDIDAE based on *Acridium* rather than on *Acrida* Linnaeus). It should be noted that the substitution of W. Kirby, 1825 for Latreille, 1802 as the author of LOCUSTIDAE does not affect the precedence proposals of Key (BZN 45: 192).

As stated by Key in para. 4 of his application, the names *Acrydium* and *Acridium* have not been used as valid for a very long time [this century], and have caused extreme taxonomic and nomenclatural confusion. The 'authorship' of these names is debatable (see comment by Dr Kerzhner). The Commission has already, in eight Opinions, ruled that 15 generic names in current use are to be taken as available from Geoffroy, 1762,

but since the application seeks the suppression of *Acrydium* and *Acridium* an extended consideration of their authorship and date would serve little purpose. There is no formal reason why the Commission should not be asked to suppress these names for the purposes of the Principle of Priority without the citation of a particular author, and I suggest that proposals (2)(a) and (b) in BZN 45: 192 be simplified accordingly. Proposal (2)(c), the suppression of family-group names based on *Acrydium* or *Acridium*, is redundant if the generic names are suppressed.

The name *Oedipoda* Latreille, 1829 (p. 188) was placed on the Official List of Generic Names by Opinion 149 (1943), but, as pointed out by Key (BZN 45: 192, para. 5), the unused spelling *Oedipode* Latreille, 1825 (p. 415) is available under Article 11b(ii) of the present Code. In the interests of stability I now propose that the Commission be asked:

- (1) to use its plenary powers to suppress the generic name *Oedipode* Latreille, 1825 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Oedipode* Latreille, 1825, as suppressed in (1) above.

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Comment on the proposed conservation of *Coryphium angusticolle* Stephens, 1834, (Insecta, Coleoptera)

(Case 2627; see BZN 45: 197-198)

M. K. Thayer

Field Museum of Natural History, Roosevelt Rd at Lake Shore Drive, Chicago IL 60605-2496, U.S.A.

I support Zerche's proposal to conserve the generic name *Coryphium* Stephens, 1834, and the name of its type species, *angusticolle* Stephens, 1834, by suppression of their respective senior synonyms *Harpognatus* Wesmael, 1833, and *robynsii* Wesmael, 1833 (and also the placing of the senior misspelling *Harpognathus* Wesmael, 1834 on the Official Index). The reasons he presents, namely the virtually universal usage of the junior generic and specific names and the lack of any subsequent use of the (correctly spelled) original combination, justify his case and would serve to prevent, rather than cause, any confusion.

It should be noted that under Article 40a of the Code the family-group name CORYPHIINI would remain valid even if the Commission were to refuse to conserve *Coryphium*.

There is a typographical error in the Stephens (1834) reference: it should say '(pp. 305-368: 1834)', thus including p. 344, rather than '(pp. 30-308: 1834)'.

Comments on the proposed conservation of *Philanthus triangulum* (Fabricius, 1775)
(Insecta, Hymenoptera)
(Case 2608; see BZN 45: 34–35)

(1) Ole Lomholdt

Zoologisk Museum, Universitetsparken 15, DK 2100 København, Denmark

Conservation of the specific name *triangulum* Fabricius, 1775 for the sphecid 'bee-wolf' would be greatly appreciated; it has been used in hundreds of papers, whereas the synonym *ruspatrix* Linnaeus, 1767 has occurred in the literature only a very few (less than five) times.

(2) Jacques Hamon

4 rue de Coteau, 74240 Gaillard, France

I wish to support the application for the conservation of *Philanthus triangulum*. Simple adoption of priority would, without any justification, jeopardize future retrieval of the very many papers on the biology of *P. triangulum* (and possibly of other *Philanthus* species). I am confident that this is not only my personal view but also that of other French entomologists concerned with the SPHECIDAE.

Comment on the proposed confirmation of the spelling of LIPARIDAE Gill, 1861 (Osteichthyes, Scorpaeniformes)
(Case 2440; see BZN 45: 130–131 and 45: 292)

E. Mayr

Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts 02138, U.S.A.

I strongly support the application made by Mr Kenneth D. Vogt.

The ruling that family names should be corrected in order to make them classically correct is in principle quite at variance with Article 31a (iii) which deals with the spelling of names in the species category. There, any 'correction' is outlawed, even in the case of misspellings of personal or geographical names, unless this clearly is evident from the original publication. This was done for the sake of stability. Personally, as I expressed already (Mayr, 1972), I cannot see why stability is not even more important in the case of family names. Why have the pedantic requirement that they must be 'corrected', to be formed exactly according to Greek or Latin grammar?

In addition to endorsing Mr Vogt's application, I strongly urge the Commission to propose an amendment to the Code, incorporating this further addition to nomenclatural stability.

Reference

- Mayr, E. 1972. Six proposed amendments to the International Code. *Bulletin of Zoological Nomenclature*, 29: 99–101.

Comment on the proposed conservation of *Pycinaster magnificus* Spencer, 1913 (Echinodermata, Asteroidea)

(Case 2564: see BZN 45: 125–126)

C. W. Wright

Old Rectory, Seaborough, Beaminster, Dorset DT8 3QY, U.K.

I write as a specialist in fossil Asteroidea to support the application of G. Breton to suppress the name *Pentetagonaster dutemplei* d'Orbigny, 1850 and to place the name *Pycinaster magnificus* Spencer, 1913 on the Official List.

Pycinaster magnificus is a species of some stratigraphic importance and it would cause confusion if the name *dutemplei* (a classic case of a *nomen oblitum* under the pre-1973 Code) were to be introduced into the literature.

Comment on the specific name (*arnouxii* Duméril, 1851 or *pelagica* Girard, 1857) of a Pacific-basin gekkonid lizard

(Case 2527: see BZN 46: 38–40)

Arnold G. Kluge

Museum of Zoology, University of Michigan, Ann Arbor, MI 48109, U.S.A.

The object of Zug's application is to suppress the senior specific name of a common Pacific gecko, *arnouxii* A. Duméril, 1851, and conserve a junior synonym, *pelagica* Girard, 1857. Zug claims that using *arnouxii* will introduce an unknown name and destabilise nomenclature. I strongly oppose his application on two grounds.

Firstly, *arnouxii* is not an unknown name, as the following 26 publications document (Duméril & Duméril, 1851; Duméril & Bibron, 1854; Duméril, 1856; Steindachner, 1867; Bavay, 1869, 1872; Peters & Doria, 1878; Sauvage, 1878a, 1878b; Boulenger, 1883, 1885, 1886; Lucas & Frost, 1897; Werner, 1900, 1901; Roux, 1913; Guibé, 1954; McCann, 1955; Wermuth, 1965; Iverson, 1978; Kluge, 1983; Gibbons, 1985; Moritz & King, 1985; Zug, 1985a, 1985b; Moritz, 1987). The majority of these authors do not question *arnouxii* as a valid taxonomic species. Guibé's (1954) catalogue of lizard types in the Muséum National d'Histoire Naturelle, Paris, is particularly noteworthy. This is not a mere list, but a scholarly attempt to judge the validity of the named forms. In many cases, Guibé expressed his doubt as to the validity of a species by setting forth its synonymy. It is obvious that he treated *arnouxii* as a distinct species, because he did not place it in synonymy. In addition, McCann (1955) doubted the existence of *arnouxii* in New Zealand; however, he did not question its validity as a good species. The number and temporal pattern of the citations is not unusual for related species described in the mid-nineteenth century. Whether or not New Zealand is the correct type locality is not at issue here.

My second objection to Zug's application is based on Moritz's recent research (1987; see also Moritz & King, 1985), which indicates that the populations previously referred to as either *arnouxii* or *pelagica* consist of a parthenogenetic species and at least two bisexual species. The name *arnouxii*, with New Caledonia as the most likely place of origin of the type series (Kluge, 1983), should be applied to the recognised asexual

species. The name *pelagica*, with Fiji as its type locality, is currently being treated as a junior synonym of *arnouxii* (Moritz, 1987). The type series of *arnouxii* (Muséum National d'Histoire Naturelle, Paris) and *pelagica* (United States National Museum) consist only of females, and they also exhibit the distinctive postmental scale pattern typical of the sexual form (C. Moritz, pers. comm.).

For those who recognise only one species the name *arnouxii* should apply. For those who regard a parthenospecies and one or more bisexual species as distinct then *arnouxii* would apply to the former, and one or more of its junior synonyms that pertain to bisexual populations (*arfakianus*, *cheverti*, *eboracensis*, *heteronotus*) are available for the latter. In the biologically complex situation at hand, it is not unlikely that additional recognisable taxa will be identified within the currently recognised parthenospecies (cf. the history of parthenospecies in the lizard genera *Cnemidophorus* and *Lacerta*). If the Commission were to use its plenary powers to suppress the specific name *arnouxii*, a new name would have to be coined for the New Caledonia parthenospecies if it were distinguished from the Fiji one.

The primary goal of the Code of nomenclature is to promote stability and universality without in any way restricting freedom of taxonomic thought or action. Simply following the Principle of Priority (Article 23) in this case meets these demands.

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Comments on the proposed conservation of the spelling *Semioptera wallacii* Gray, 1859 (Aves, Paradisaeidae)

(Case 2441: see BZN 45: 212–213)

(1) Jiří Mlíkovský

Department of Evolutionary Biology, Czechoslovak Academy of Sciences, Sekaninova 28, CS-12800 Praha 2, Czechoslovakia

In this application M. LeCroy seeks to conserve the spelling *Semioptera wallacii* for the name of Wallace's Standard Wing Bird of Paradise on the grounds of usage. However, as she states (para. 2), the name was first published as *Semeioptera wallacei*, and since there is no evidence in the original report in the *Literary Gazette* of any error (cf. Article 32c of the Code) the principle of priority should apply. The etymology of the name supports the original spelling: the generic name is based on the Greek words *semeion* (sign, mark, star) and *pteron* (wing), and the specific name was apparently created for Alfred R. Wallace. I therefore propose that the International Commission on Zoological Nomenclature should reject the application and accept the spelling *Semeioptera wallacei*, as suggested by McAlpine (1979; cited in para. 2 of the application).

(2) Mary LeCroy

Department of Ornithology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024, U.S.A.

Walter J. Bock

Department of Biological Sciences, Columbia University, New York, NY 10027, U.S.A.

J. Mlíkovský, in his comment, and other workers who argue for adoption of the spelling *Semeioptera wallacei* rather than the well-established *Semioptera wallacii* for the name of Wallace's Standard Wing Bird of Paradise on grounds of strict priority completely overlook the fact that the Preamble is an integral part of the International Code of Zoological Nomenclature. The Preamble states clearly in its second paragraph that 'The object of the Code is to promote stability and universality in the scientific names of animals and to ensure that the name of each taxon is unique and distinct.' Nothing would more violate the wording and spirit of the Preamble than to change the spelling of the generic name *Semioptera* to *Semeioptera* after 130 years of consistent usage of *Semioptera*, merely on the basis of an article in a journal of general and current affairs. This article was an anonymous report of the 22 March 1859 meeting of the Zoological Society of London.

As mentioned in the original proposal, the only use of *Semeioptera* during the past 130 years was by Wood (1862) and even that was not in a zoological publication. All zoologists used *Semioptera* for 130 years; these workers included many nomenclaturists who believed in strict priority and who would have insisted on change to *Semioptera* if the evidence supported this move.

Further we would like to note that the etymology of the name does not support the spelling *Semeioptera*. The Greek 'ει' is usually latinized to 'i', as in Chiroptera, not as 'ei' as claimed by Mlíkovský (see page 187 of the Code).

Acceptance of J. Mlíkovský's proposal to accept the spelling *Semeioptera wallacei* will simply result in zoologists using both names for some time into the future, as many workers who would not be aware of the decision of the Commission would use earlier reference sources, a situation not conducive to stability of nomenclature.

On the basis of the guidelines in the Preamble to the Code and in Article 79(c), we urge that the International Commission of Zoological Nomenclature adopt the several points proposed by M. LeCroy in her original proposal.

Comment on the proposed suppression of *Rallus nigra* Miller, 1784 (Aves).
(Case 2276; see BZN 40: 249–251 and 44: 126–128)

Michael P. Walters

British Museum (Natural History), Tring, Hertfordshire HP23 6AP, U.K.

I believe that *Rallus nigra* does not refer to the rail known as *R. tabuensis* (currently *Porzana tabuensis*), the Pacific spotless crane or sooty rail. I also believe that the original description on which the name *Rallus tabuensis* was based does not refer to the rail currently known by that name, but to the same species as *R. nigra*. Thus, ironically, Bruce et al. (BZN 40: 249–251) are right, but not for the reasons they think! It would clearly be most unfortunate if the now familiar name *tabuensis* had to be discarded in favour of a totally unknown name (*tahitiensis*), but I cannot see that invalidating *R. nigra* would do anything to solve the problem, and would only confuse the issue still further.

I have recently published a paper on the relationships of the species concerned (Walters, 1988). Basically, the situation is as follows:

1. The name *Rallus nigra* is known only from a plate by J. F. Miller, first published in his *Icon Animalium* of 1784 and, subsequently in 1796, in a revised edition of his work (called the *Cimelia Physica*), with an added interleaved text by George Shaw which was taken from Latham (see paragraph 3 below). Miller's plate may well have been copied and published with little alteration from an unpublished painting of a rail from Tahiti by Georg Forster, made on Cook's second voyage, which is housed in the British Museum (Natural History), no. 130. Lysaght (1956, p. 97) claimed that the bird depicted was the rail currently known as *Porzana tabuensis* (Gmelin, 1789), and proposed to substitute Miller's name for Gmelin's on the grounds of priority. However, the bird is clearly not *tabuensis* as now understood, as this has a very conspicuous brown mantle which is absent from both Miller's and Forster's plates. Peters (1934, p. 188, footnote) wrote: 'Miller's plate represents a wholly black rail somewhat larger than *tabuensis*; it cannot be identified with any of the known forms of *tabuensis* and possibly represents the bird later named *Porzana atra* (North, 1908) [from Henderson Island] or at least a bird closely allied to it'.

2. In addition to the two plates, there is a description by J. R. Forster (Georg Forster's father) written at the time of the voyage but not published until 1844, many years after the author's death. This description, in which Forster calls the bird *Rallus minutus*, was identified by Lichtenstein (1844, p. 178), the editor of the published account, as *Porzana tabuensis* and was clearly based on a specimen or specimens collected by the Forsters on their journey, and not on Georg's plate, with which it

disagrees on several points. I compared this description with specimens of *Porzana tabuensis* in the British Museum (Natural History) and consider it definitely refers to *tabuensis*. It seems likely, therefore, that the Forsters collected specimens (none now extant) of both *nigra* and *tabuensis* but failed to distinguish between them, J. R. Forster's description probably referring to *tabuensis* and Georg Forster's plate being based on a specimen of *nigra*.

3. Much of the past confusion regarding the two rails seems to have arisen from a failure to interpret correctly the significance of the two descriptions by Latham (1783, pp. 235 and 236) in his *General Synopsis of Birds* of his Tabuai rail and Tahiti (which he called Otaheite) rail, the origins respectively of Gmelin's 1789 *Rallus tabuensis* from Tongatabu, Tahiti and the neighbouring islands, and *R. tahitiensis* from Tahiti and the Friendly Isles. Although Wigglesworth (1892, pp. 60 and 61) separated *tahitiensis* from *tabuensis*, nearly all writers have correctly realised that there is no difference between the populations of the rail now called *tabuensis* occurring on the islands of Tonga and Tahiti, but have therefore regarded *tahitiensis* as a synonym of *tabuensis* in the mistaken belief that Latham had separated the two populations. In fact, he did no such thing. According to his accounts, both rails occurred on both islands. Furthermore, his descriptions must refer to two different species. The sooty rail is indicated by his description of the Tahiti rail, while his Tabuai rail accords reasonably well with Miller's rail. Latham probably described his Tabuai rail from Georg Forster's plate and the Tahiti rail from specimens collected on Cook's third voyage (Medway, 1979, p. 332).

4. It seems likely that the Tahiti rail *Rallus tahitiensis* Gmelin, 1789 and *R. minutus* of J. R. Forster's description represent the rail now known as *Porzana tabuensis* and in the interests of nomenclatural stability it would be unfortunate if the name were now altered. Probably Miller's *Rallus nigra*, Latham's Tabuai rail, Gmelin's 1789 *Rallus tabuensis* and Georg Forster's plate all represent another species, now extinct, related to *Nesophylax ater* of Henderson Island. As Miller's name is the oldest, the extinct bird is best called *Nesophylax niger*. Olson & Steadman (BZN 44: 126–128) have previously suggested that the name *R. nigra* might well represent a taxon distinct from *tabuensis*, possibly an extinct form of *Porzana atra* (currently *Nesophylax ater*) from Henderson Island.

5. In the interests of stability of nomenclature I designate a neotype for *Rallus tabuensis*, as presently understood for the spotless crane or sooty rail. It is specimen no. 1893.7.8.3 in the collections of the British Museum (Natural History) and was collected by Andrew Garrett on Huahine, one of the Society Islands.

Additional References

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- Latham, J. 1785. *A General Synopsis of Birds*. Vol. 3, part 1. iii, 328 pp. Leigh & Sotheby, London.
- Medway, D. G. 1979. Some ornithological results of Cook's third voyage. *Journal of the Society for the Bibliography of Natural History*, 9(3): 315–351.
- Walters, M. P. 1988. Probable validity of *Rallus nigra* Miller, an extinct species from Tahiti. *Nocturnis*, 35: 265–269.
- Wigglesworth, L. W. 1892. Aves Polynesia. A Catalogue of the Birds of the Polynesian Subregion (not including the Sandwich Islands). *Abhandlungen und Berichte des Königlichen Zoologischen und Anthropologisch-Ethnographischen Museums zu Dresden 1890–91*, 6: 1–92.

Note by the Commission Secretariat

In view of the differing taxonomic opinions (BZN 40: 249–251; 44: 126–128; and the above Comment) involved in this case, and the new information supplied by Mr Walters, it seems appropriate to revise the original proposals published in BZN 40: 250. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to:
 - (a) suppress the specific name *tahitiensis* Gmelin, 1789, as published in the binomen *Rallus tahitiensis* for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) to rule that the specific name *tabuensis* Gmelin, 1789, as published in the binomen *Rallus tabuensis* and as interpreted by the specimen designated as neotype by Walters (1989) in paragraph 5 above, is to be given precedence over the specific name *nigra* Miller, 1784, as published in the binomen *Rallus nigra*, whenever the two names are considered to be synonyms;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *tabuensis* Gmelin, 1789, as published in the binomen *Rallus tabuensis* and as interpreted by the specimen designated as neotype in paragraph 5 above, with an endorsement that it is to be given precedence over *nigra* Miller, 1784, as published in the binomen *Rallus nigra*, whenever the two names are considered to be synonyms;
 - (b) *nigra* Miller, 1784, as published in the binomen *Rallus nigra*, with an endorsement that it is not to be given priority over *tabuensis* Gmelin, 1789, as published in the binomen *Rallus tabuensis*, whenever the two names are considered to be synonyms;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *tahitiensis* Gmelin, 1789, as published in the binomen *Rallus tahitiensis* and as suppressed in (1)(a) above.

OPINION 1518

Harpa articularis Lamarck, 1822 (Mollusca, Gastropoda): specific name conserved

Ruling

(1) Under the plenary powers the specific name *delicata* Perry, 1811, as published in the binomen *Harpa delicata*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *articularis* Lamarck, 1822, as published in the binomen *Harpa articularis*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *delicata* Perry, 1811, as published in the binomen *Harpa delicata* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2548

An application for the conservation of *Harpa articularis* Lamarck, 1822 was received from Dr H. A. Rehder and Mr R. E. Petit (Smithsonian Institution, Washington, U.S.A.) on 19 December 1985. After correspondence the case was published in BZN 44: 19–20 (March 1987). Notice of the case was sent to appropriate journals. A supportive comment was received from Dr W. O. Cernohorsky (Auckland Institute and Museum, New Zealand). A letter was received from Mr R. E. Petit, who pointed out that *Harpa articularis* Lamarck, 1822 is not threatened by *H. urniformis* Perry, 1811 as published in the Abstract of the application. The latter name was thought to be a possible senior synonym of *H. ventricosa* Lamarck, 1816 and it was for this reason that its suppression was sought.

The 'Bulletin of the American Malacological Union' in the Petit (1984) reference (BZN 44: 20) should read 'American Malacological Bulletin'.

Decision of the Commission

On 1 March 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 20. At the close of the voting period on 1 June 1988 the votes were as follows:

Affirmative votes — 22: Alvarado, Bayer, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Heppell, Holthuis, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Thompson, Uéno, Willink

Negative votes — none.

No votes were returned by Bernardi, Gruchy and Trjapitzin.

It became apparent during the voting period that *ventricosa* Lamarck dates from 1801, not 1816 as stated in the application. It is now believed that any problems involved with *Harpa ventricosa* and *H. urniformis* are purely taxonomic and that portion of the application has been withdrawn.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

articularis, *Harpa*, Lamarck, 1822, *Histoire Naturelle des Animaux sans Vertèbres*, part 7, p. 256.
delicata, *Harpa*, Perry, 1811, *Conchology, or the Natural History of Shells; containing a new arrangement of the genera and species . . .*, pl. 40, fig. 2.

OPINION 1519

Ammonites neubergicus Hauer, 1858 (Cephalopoda, Ammonoidea): to be given precedence over *Ammonites chrishna* Forbes, 1846

Ruling

(1) Under the plenary powers the specific name *neubergicus* Hauer, 1858, as published in the binomen *Ammonites neubergicus*, is hereby given precedence over the specific name *chrishna* Forbes, 1846, as published in the binomen *Ammonites chrishna*, whenever the two names are considered to be synonyms.

(2) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *neubergicus* Hauer, 1858, as published in the binomen *Ammonites neubergicus*, (specific name of the type species of *Pachydiscus* Zittel, 1884) with the endorsement that it is to be given precedence over *chrishna* Forbes, 1846, as published in the binomen *Ammonites chrishna*, whenever the two names are considered to be synonyms;
- (b) *chrishna* Forbes, 1846, as published in the binomen *Ammonites chrishna*, with the endorsement that it is not to be given priority over *neubergicus* Hauer, 1858, as published in the binomen *Ammonites neubergicus*, whenever the two names are considered to be synonyms.

History of Case 2460

An application for the conservation of *Ammonites neubergicus* Hauer, 1858 was received from Drs R. A. Henderson (*James Cook University of North Queensland, Townsville, Australia*) and W. J. Kennedy (*University Museum, Oxford, U.K.*) on 14 November 1983. After correspondence the case was published in BZN 43: 277–278 (October 1986). Notice of the case was sent to appropriate journals. A supportive comment was received from Mr C. W. Wright (*Beaminstor, Dorset, U.K.*). A comment from Professor G. Hahn, opposing the suppression of *Ammonites chrishna*, because its synonymy with *neubergicus* is subjective, was published in BZN 44: 126 (June 1987). The specific name *neubergicus* was published in combination with *Ammonites*, not *Pachydiscus* as stated in BZN 43: 277, para. 5(2).

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 43: 277, modified to give precedence to *neubergicus* rather than to suppress *chrishna*. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 16: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 1: Ride.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Ride commented that an adequate case had been made for the conservation of the name *neubergicus*; he would have voted for the suppression of *chrishna* as suggested in

the application, and he considered that the Commission should have been asked to vote for or against this simpler course.

Original references

The following are the original references to the names placed on an Official List by the ruling given in the present Opinion:

chirishna, *Ammonites*, Forbes, 1846, *Transactions of the Geological Society, London*, 7: 103.

neubergicus, *Ammonites*, Hauer, 1858, *Beitraege zur palaeontographie von Österreich*, vol. 1, p. 12.

OPINION 1520

***Chagrinichnites brooksi* Feldmann, Osgood, Szmuc & Meinke, 1978 and *Chagrinichnites osgoodi* Hannibal & Feldmann, 1983 (Trace fossil; arthropod): conserved**

Ruling

(1) Under the plenary powers the following names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:

- (a) the generic name *Physophyscus* Lesquereux, 1891;
- (b) the specific name *bilobatus* Lesquereux, 1891, as published in the binomen *Physophyscus bilobatus*.

(2) The name *Chagrinichnites* Feldmann, Osgood, Szmuc & Meinke, 1978 (gender: masculine), is hereby placed on the Official List of Generic Names in Zoology.

(3) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *brooksi* Feldmann, Osgood, Szmuc & Meinke, 1978, as published in the binomen *Chagrinichnites brooksi*;
- (b) *osgoodi* Hannibal & Feldmann, 1983, as published in the binomen *Chagrinichnites osgoodi*.

(4) The name *Physophyscus* Lesquereux, 1891 is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology as suppressed in (1)(a) above.

(5) The name *bilobatus* Lesquereux, 1891, as published in the binomen *Physophyscus bilobatus* and as suppressed in (1)(b) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2455

An application for the conservation of the trace fossil names *Chagrinichnites brooksi* and *C. osgoodi* was received from Drs R. M. Feldmann (*Department of Geology, Kent State University, Kent, Ohio, U.S.A.*) and J. T. Hannibal (*Cleveland Museum of Natural History, Cleveland, Ohio, U.S.A.*) on 12 October 1983. After correspondence the case was published in BZN 44: 97–98 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 98. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 14: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Melville, Mroczkowski, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 3: Kraus, Lehtinen and Ride.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Kraus considered that the applicants did not sufficiently demonstrate that the case is relevant to non-specialists in Late Devonian trace fossils.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

bilobatus, *Physophyscus*, Lesquereux, 1891, *Proceedings of the U.S. National Museum*, **13**: 9.
brooksi, *Chagrinichnites*, Feldmann, Osgood, Szmuc & Meinke, 1978, *Journal of Paleontology*, **52**: 288.

Chagrinichnites Feldmann, Osgood, Szmuc & Meinke, 1978, *Journal of Paleontology*, **52**: 288.

osgoodi, *Chagrinichnites*, Hannibal & Feldmann, 1983, *Journal of Paleontology*, **57**: 706.

Physophyscus Lesquereux, 1891, *Proceedings of the U.S. National Museum*, **13**: 9.

OPINION 1521

***Eriophyes* von Siebold, 1851 and *Phytoptus* Dujardin, 1851 (Arachnida, Acarina): *Phytoptus pyri* Pagenstecher, 1857 and *Phytoptus avellanae* Nalepa, 1889 designated as the respective type species**

Ruling

(1) Under the plenary powers:

(a) the following specific names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:

(i) *pseudogallarum* Vallot, 1836, as published in the binomen *Acarus pseudo-gallarum*;

(ii) *coryli* Frauenfeld, 1865, as published in the binomen *Phytoptus coryli*;

(iii) *coryligallarum* Targioni-Tozzetti, 1885, as published in the binomen *Phytoptus coryligallarum*;

(b) the specific name *avellanae* Sorauer, 1886, as published in the binomen *Calycophthora avellanae*, and all uses of that name prior to the publication of *Phytoptus avellanae* Nalepa, 1889, are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.

(2) Under the plenary powers all previous designations of type species for the nominal genera *Eriophyes* von Siebold, 1851 and *Phytoptus* Dujardin, 1851 are hereby set aside and *Phytoptus pyri* Pagenstecher, 1857 and *Phytoptus avellanae* Nalepa, 1889 are designated as the respective type species.

(3) The following names are hereby placed on the Official List of Generic Names in Zoology:

(a) *Eriophyes* von Siebold, 1851 (gender: masculine), type species by designation under the plenary powers in (2) above, *Phytoptus pyri* Pagenstecher, 1857;

(b) *Phytoptus* Dujardin, 1851 (gender: masculine, type species by designation under the plenary powers in (2) above, *Phytoptus avellanae* Nalepa, 1889;

(c) *Aceria* Keifer, 1944 (gender: masculine), type species by original designation *Eriophyes tulipae* Keifer, 1938;

(d) *Colomerus* Newkirk & Keifer, 1971 (gender: masculine), type species by original designation *Eriophyes gardeniella* Keifer, 1964.

(4) The following names are hereby placed on the Official List of Specific Names in Zoology:

(a) *pyri* Pagenstecher, 1857, as published in the binomen *Phytoptus pyri* (specific name of the type species of *Eriophyes* von Siebold, 1851);

(b) *avellanae* Nalepa, 1889, as published in the binomen *Phytoptus avellanae* (specific name of the type species of *Phytoptus* Dujardin, 1851);

(c) *tulipae* Keifer, 1938, as published in the binomen *Eriophyes tulipae* (specific name of the type species of *Aceria* Keifer, 1944);

(d) *gardeniella* Keifer, 1964, as published in the binomen *Eriophyes gardeniella* (specific name of the type species of *Colomerus* Newkirk & Keifer, 1971).

(5) The following names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology:

(a) *pseudogallarum* Vallot, 1836, as published in the binomen *Acarus pseudo-gallarum* and as suppressed in (1)(a)(i) above;

- (b) *coryli* Frauenfeld, 1865 as published in the binomen *Phytoptus coryli* and as suppressed in (1)(a)(ii) above;
- (c) *coryligallarum* Targioni-Tozzetti, 1885, as published in the binomen *Phytoptus coryligallarum* and as suppressed in (1)(a)(iii) above;
- (d) *avellanae* Sorauer, 1886, as published in the binomen *Calycophthora avellanae* and as suppressed in (1)(b) above.

History of Case 2044

An application for the designation of type species in accordance with established usage for *Eriophyes* von Siebold, 1851 and *Phytoptus* Dujardin, 1851 was received from Dr V. G. Shevtchenko (*Vice President of the Acarology Section, All-Union Entomological Society, U.S.S.R.*) on 18 April 1973. The case was published in BZN 30: 196–197 (June 1974). The Commission voted on the case in 1977 and by 18 to 3 supported the proposals. However, an Opinion was not published as it became apparent during the voting period that there were problems with the proposed type species for both genera. A revised application by Drs E. E. Lindquist (*Biosystematics Research Centre, Ottawa, Canada*) and D. C. M. Manson (*Ministry of Agriculture and Fisheries, Auckland, New Zealand*) was published in BZN 44: 41–43 (March 1987). Notice of the case was sent to appropriate journals. Two supportive comments for the revised application were published in BZN 44: 200 (September 1987), together with a note of 14 other comments in support. Three additional supportive comments were received from Mr F. Kadono (*Chiba Prefectural Agricultural College, Togane, Japan*), Dr Badawi A. Abou-Awad (*National Research Centre, Cairo, Egypt*) and Dr G. J. de Moraes (*Empresa Brasileira de Pesquisa Agropecuaria, Embrapa, Brazil*).

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 42–43. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

- Aceria* Keifer, 1944, *Bulletin of the California Department of Agriculture*, 33(1): 22.
avellanae, *Calycophthora*, Sorauer, 1886, *Handbuch der Pflanzenkrankheiten*, Ed. 2, vol. 1, p. 827.
avellanae, *Phytoptus*, Nalepa, 1889, *Sitzungsberichte der Akademie der Wissenschaften Mathematisch-Naturwissenschaftliche Classe, Wien*, 98(1): 126.
Colomerus Newkirk & Keifer, 1971, *Eriophyid Studies, C-5, Agriculture Research Service, U.S. Department of Agriculture*, p. 6.
coryli, *Phytoptus*, Frauenfeld, 1865, *Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien*, 15: 263.
coryligallarum, *Phytoptus*, Targioni-Tozzetti, 1885, *Atti della R. Accademia economiche-agrario dei Georgofili di Firenze*, 1885: 32.

- Eriophyes* von Siebold, 1851, *Jahresbericht der schlesischen Gesellschaft für vaterländische Kultur*, **28**: 89.
- gardeniella*, *Eriophyes*, Keifer, 1964, *Eriophyid Studies B-12*, California Department of Agriculture, p. 9.
- Phytoptus* Dujardin, 1851, *Annales des Sciences naturelles (Zoology)*, (3)**15**: 167.
- pseudogallarum*, *Acarus*, Vallot, 1836, *Mémoires de l'Académie des Sciences, Arts et Belles-Lettres de Dijon*, **1836**: 189.
- pyri*, *Phytoptus*, Pagenstecher, 1857, *Verhandlungen des naturhistorisch-medicinischen Vereins zu Heidelberg*, **1**(2): 48.
- tulipae*, *Eriophyes*, Keifer, 1938, *Bulletin of the California Department of Agriculture*, **7**(2): 185.

OPINION 1522

Callianidea* H. Milne Edwards, 1837 (Crustacea, Decapoda): conserved*Ruling**

- (1) Under the plenary powers:
 - (a) the generic name *Isea* Guérin [-Méneville], 1832 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) the specific name *typa* H. Milne Edwards, 1837, as published in the binomen *Callianidea typa*, is hereby to be given precedence over the specific name *elongata* Guérin [-Méneville], 1832, as published in the binomen *Isea elongata*, whenever the two names are considered synonyms.
- (2) The following names are hereby placed on the Official List of Generic Names in Zoology:
 - (a) *Callianidea* H. Milne Edwards, 1837 (gender: feminine), type species by monotypy *Callianidea typa* H. Milne Edwards, 1837;
 - (b) *Isaea* H. Milne Edwards, 1830 (gender: feminine), type species by monotypy *Isaea montagui* H. Milne Edwards, 1830.
- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
 - (a) *elongata* Guérin [-Méneville], 1832, as published in the binomen *Isea elongata*, with the endorsement that it is not to be given priority over *typa* H. Milne Edwards, 1837, as published in the binomen *Callianidea typa*, whenever the two names are considered to be synonyms;
 - (b) *montagui* H. Milne Edwards, 1830, as published in the binomen *Isaea montagui* (specific name of the type species of *Isaea* H. Milne Edwards, 1830);
 - (c) *typa* H. Milne Edwards, 1837, as published in the binomen *Callianidea typa* (specific name of the type species of *Callianidea* H. Milne Edwards, 1837), with the endorsement that it is to be given precedence over *elongata* Guérin [-Méneville], 1832, as published in the binomen *Isea elongata*, whenever the two names are considered synonyms.
- (4) The following names are hereby placed on the Official List of Family-Group Names in Zoology:
 - (a) CALLIANIDEINAE De Man, 1928 (type genus *Callianidea* H. Milne Edwards, 1837; Crustacea, Decapoda);
 - (b) ISAEINAE Dana, 1853 (type genus, *Isaea* H. Milne Edwards, 1830; Crustacea, Amphipoda).
- (5) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:
 - (a) *Callisea* Dana, 1852 (a junior objective synonym of *Callianisea* H. Milne Edwards, 1837);
 - (b) *Isaea* Agassiz, 1846 (an unjustified emendation of *Isea* Guérin [-Méneville], 1832, and a junior homonym of *Isaea* H. Milne Edwards, 1830);
 - (c) *Isea* Guérin [-Méneville], 1832, as suppressed in (1)(a) above.

History of Case 2567

An application for the conservation of *Callianidea* H. Milne Edwards, 1837 was received from Drs K. Sakai (*Laboratory of Crustacea, Shikoku Women's University, Japan*) and L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) on 14 April 1986. After correspondence the case was published in BZN 44: 92–94 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 93–94. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride (in part), Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Ride abstained from voting on Proposal (1)(b) of BZN 44: 93 (the precedence of *typa* over *elongata*). He said that the problem could better be solved either by the authors designating a neotype for *C. elongata* clearly different from *C. typa*, so that no action by the Commission was necessary, or by the suppression of the name *elongata*.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Callianidea H. Milne Edwards, 1837, *Histoire naturelle des crustacés, comprenant l'anatomie, la physiologie et la classification de ces animaux*, vol. 2, p. 319.

CALLIANIDEINAE De Man, 1928, *Siboga Expeditions Monograph*, 39(a6): 30.

Callisea Dana, 1852, *Proceedings of the Academy of Natural Sciences, Philadelphia*, 6: 11.

elongata, *Isea*, Guérin [-Méneville], 1832, *Annales de la Société Entomologique de France*, 1: 300.

Isaea H. Milne Edwards, 1830, *Annales des Sciences naturelles. Paris*, 20: 380.

Isaea Agassiz, 1846, *Nomenclatoris Zoologici Index Universalis*, p. 196.

ISAEINAE Dana, 1853, *U.S. Exploring expedition . . . 1838–42 . . . under the command of C. Wilkes*, vol. 13, p. 913.

Isea Guérin [-Méneville], 1832, *Annales de la Société Entomologique de France*, 1: 299.

montagui, *Isaea*, H. Milne Edwards, 1830, *Annales des Sciences naturelles, Paris*, 20: 380.

typa, *Callianidea*, H. Milne Edwards, 1837, *Histoire naturelle des crustacés, comprenant l'anatomie, la physiologie et la classification de ces animaux*, vol. 2, p. 320.

OPINION 1523

Corisa germari Fieber, 1848 (currently *Arctocorisa germari*; Insecta, Hemiptera): neotype designated

Ruling

(1) Under the plenary powers the type status of any North American specimens referred to as *Corisa germari* Fieber, 1848 is hereby set aside and the male specimen referred to in BZN 44: 99 (para. 3) and deposited in the Zoologische Museum, Humboldt Universität, Berlin, DDR is hereby designated as the neotype of *Corisa germari* Fieber, 1848.

(2) The name *germari* Fieber, 1848, as published in the binomen *Corisa germari* and as interpreted by the neotype designated in (1) above, is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2543

An application for the designation of a neotype for *Corisa germari* Fieber, 1848 was received from Dr A. Jansson (*Zoological Museum, Helsinki, Finland*) on 9 December 1985. After correspondence the case was published in BZN 44: 99–100 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 99–100. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following is the original reference to the name placed on an Official List by the ruling given in the present Opinion:

germari, *Corisa*, Fieber, 1848, *Nouveaux Mémoires de la Société Impériale des naturalistes de Moscou*, 21: 531.

OPINION 1524

***Corisa distincta* Fieber, 1848 (currently *Sigara (Subsigara) distincta*; Insecta, Hemiptera): specific name conserved**

Ruling

(1) Under the plenary powers the specific name *schellemborgii* Spinola, 1837, as published in the binomen *Corixa schellemborgii*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *distincta* Fieber, 1848, as published in the binomen *Corisa distincta* and as interpreted by the neotype designated by Jansson (1986), is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *schellemborgii* Spinola, 1837, as published in the binomen *Corixa schellemborgii* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2544

An application for the conservation of *Corisa distincta* Fieber, 1848 was received from Dr A. Jansson (*Zoological Museum, Helsinki, Finland*) on 9 December 1985. After correspondence the case was published in BZN 44: 101–102 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 101. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

distincta, *Corisa*, Fieber, 1848, *Nouveaux Mémoires de la Société Impériale des naturalistes de Moscou*, 21: 524.

schellemborgii, *Corixa*, Spinola, 1837. *Essai sur les genres d'insectes appartenants à l'ordre des Hémiptères, Lin. ou Rhyngotes, Fab. et à la section des Hétéroptères*, p. 57.

OPINION 1525

Phymatodes Mulsant, 1839 and *Phymatestes* Pascoe, 1867 (Insecta, Coleoptera): conserved

Ruling

- (1) Under the plenary powers the following generic names are hereby suppressed:
 - (a) *Phymatodes* Dejean, 1834, and all uses of that name prior to the publication of *Phymatodes* Mulsant, 1839, for the purposes of both the Principle of Priority and the Principle of Homonymy;
 - (b) *Merium* Kirby, 1837, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.
- (2) The following names are hereby placed on the Official List of Generic Names in Zoology:
 - (a) *Phymatodes* Mulsant, 1839 (gender: masculine), type species by subsequent designation by LeConte (1850) *Cerambyx variabilis* Linnaeus, 1761;
 - (b) *Phymatestes* Pascoe, 1867 (gender: masculine), type species by indication *Lagria tuberculata* Fabricius, 1792;
 - (c) *Meriellum* Linsley, 1957 (gender: neuter), type species by indication *Merium proteus* Kirby, 1837.
- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
 - (a) *variabilis* Linnaeus, 1761, as published in the binomen *Cerambyx variabilis* (specific name of the type species of *Phymatodes* Mulsant, 1839);
 - (b) *tuberculata* Fabricius, 1792, as published in the binomen *Lagria tuberculata* (specific name of the type species of *Phymatestes* Pascoe, 1867);
 - (c) *proteus* Kirby, 1837, as published in the binomen *Merium proteus* (specific name of the type species of *Meriellum* Linsley, 1957).
- (4) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:
 - (a) *Phymatodes* Dejean, 1834 as suppressed in (1)(a) above;
 - (b) *Merium* Kirby, 1837 as suppressed in (1)(b) above.

History of Case 2532

An application for the conservation of *Phymatodes* Mulsant, 1839 and *Phymatestes* Pascoe, 1867 was received from Dr M. Mroczkowski (*Instytut Zoologii, Warsaw, Poland*) on 3 September 1985. After correspondence the case was published in BZN 44: 107–109 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 108. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Meriellum Linsley, 1957, *Canadian Entomologist*, **89**: 287.

Merium Kirby, 1837, *Fauna Boreali Americana, The Insects*, part 4, p. 172.

Phymatestes Pascoe, 1867, *Journal of the Linnean Society of London, Zoology*, **9**: 142.

Phymatodes, Dejean, 1834, *Catalogue des Coléoptères*, Ed. 2(3), p. 203.

Phymatodes Mulsant, 1839, *Histoire Naturelle des Coléoptères de France*, vol. 1, p. 39.

proteus, *Merium*, Kirby, 1837, *Fauna Boreali Americana, The Insects*, part 4, p. 172.

tuberculata, *Lagria*, Fabricius, 1792, *Entomologia systematica emendata et aucta*, vol. 1(2), p. 78.

variabilis, *Cerambyx*, Linnaeus, 1761, *Fauna Svecica*, Editio altera, p. 192.

OPINION 1526

Nanophyes Schoenherr, 1838 (Insecta, Coleoptera): conserved

Ruling

(1) Under the plenary powers the name *Nanodes* Schoenherr, 1825 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *Nanophyes* Schoenherr, 1838 (gender: masculine), type species designated by Schoenherr (1825; for *Nanodes*) *Curculio lythri* Fabricius, 1787 (a junior subjective synonym of *Curculio marmoratus* Goeze, 1777) is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *marmoratus* Goeze, 1777, as published in the binomen *Curculio marmoratus*, is hereby placed on the Official List of Specific Names in Zoology (valid name at the time of this ruling of the type species of *Nanophyes* Schoenherr, 1838).

(4) The name *Nanodes* Schoenherr, 1825, as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

(5) The name *Nanodes* Stephens, 1826 is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology (a junior homonym of *Nanodes* Schoenherr, 1825).

History of Case 2555

An application for the conservation of *Nanophyes* Schoenherr, 1838 was received from Drs M. A. Alonso-Zarazaga (*Carretera de Cadiz 89, Málaga, Spain*) and L. Dieckmann (*Leibnizstr. 17, Eberswalde, D.D.R.*) on 31 January 1986. After correspondence the case was published in BZN 44: 15–16 (March 1987). Notice of the case was sent to appropriate journals. An opposing comment was received from Dr D. E. Bright (*Biosystematics Research Centre, Ottawa, Canada*) and published in BZN 44: 195. A supportive comment from Dr M. G. Morris (*Institute of Terrestrial Ecology, Wareham, Dorset, U.K.*) was published in BZN 44: 195. A further supportive comment was received from Ing. Karel Schon (*Litvinov, Czechoslovakia*).

Nanodes Stephens, 1826 (PSITTACIDAE, Aves) is no longer in use, having been replaced by *Lathamus* Lesson, 1830 (see pp. 14–15 of Mathews, G. M. 1911, *On Some Necessary Alterations in the Nomenclature of Birds*, part 2. *Novitates Zoologicae*, 18(1): 1–148, and p. 166 of Peters, J. L. 1937, *Checklist of the Birds of the World*, vol. 3, pp. 1–311. Harvard University Press, Cambridge.) A proposal was added to those on BZN 44: 16 to place *Nanodes* Stephens, 1826 on the Official Index.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 16, together with the additional proposal as above. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 12: Bayer, Cocks, Corliss, Hahn, Halvorsen, Kabata, Kraus, Melville, Mroczkowski, Ride, Starobogatov, Uéno

Negative votes — 5: Heppell, Lehtinen, Savage, Schuster and Willink.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Bayer and Kabata commented that as 411 nominal species were involved the conservation of *Nanophyes* Schoenherr, 1838 was justified. Heppell and Willink agreed with Dr Bright's comment that priority should apply.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

marmoratus, *Curculio*, Goeze, 1777, *Entomologische Beyträge zu des Ritter Linne zwölfsten Ausgabe des Natursystems*, vol. 1, p. 413.

Nanodes Schoenherr, 1825, *Isis* (von Oken, Jena), 5: 587.

Nanodes Stephens, 1826. In Shaw, *General Zoology or systematic Natural History commenced by the late George Shaw, M.D., F.R.S. &c.*, vol. 14, p. 118.

Nanophyes Schoenherr, 1838, *Genera et species Curculionidum*, . . . , vol. 4(2), p. 780.

OPINION 1527

Polyommatus emolus Godart, [1824] (currently *Anthene emolus*; Insecta, Lepidoptera): specific name conserved

Ruling

(1) Under the plenary powers the specific name *balliston* Hübner, [1823], as published in the binomen *Lampides balliston*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *emolus* Godart, [1824], as published in the binomen *Polyommatus emolus*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *balliston* Hübner, [1823], as published in the binomen *Lampides balliston* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 1731

An application for the conservation of *Polyommatus emolus* Godart, [1824] was first received from Mr G. E. Tite (*Tring, Herts., U.K.*) on 21 December 1965. The case was reopened in 1986 and after correspondence was published in BZN 44: 112–113 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 112. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 15: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kraus, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 2: Kabata and Lehtinen.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

balliston, *Lampides*, Hübner, [1823], *Zuträge zur Sammlung exotischer Schmettlinge*, p. 11.

emolus, *Polyommatus*, Godart, [1824], *In Latreille & Godart, Encyclopédie Méthodique*, vol. 9(2), p. 656.

OPINION 1528

***Pyralis nigricana* Fabricius, 1794 (currently in *Cydia* or *Laspeyresia*; Insecta, Lepidoptera): specific name conserved**

Ruling

(1) Under the plenary powers the specific name *rusticella* Clerck, 1759, as published in the binomen *Phalaena rusticella*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *nigricana* Fabricius, 1794, as published in the binomen *Pyralis nigricana*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *rusticella* Clerck, 1759, as published in the binomen *Phalaena rusticella* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2468

An application for the conservation of the specific name of *Pyralis nigricana* Fabricius, 1794 was received from Dr P. R. Seymour (*Ministry of Agriculture, Fisheries and Food, Harpenden, Herts., U.K.*) on 8 March 1984. After correspondence the case was published in BZN 43: 93–95 (April 1986). Notice of the case was sent to appropriate journals. An opposing comment by Drs G. S. Robinson (*British Museum (Natural History), London, U.K.*) and E. S. Nielsen (*CSIRO, Canberra, Australia*) was published in BZN 44: 196–197 (September 1987) together with a reply by the author of the application (BZN 44: 197–199).

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 43: 94–95. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 13: Bayer, Corliss, Heppell, Kabata, Kraus, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 4: Cocks, Hahn, Halvorsen and Lehtinen.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cocks agreed with the objections of Robinson & Nielsen and considered that in this case priority should stand. Bayer, Willink and Uéno, although agreeing in principle with Robinson & Nielsen, considered the conservation of *nigricana* to be justified. Hahn would have preferred placing both *nigricana* and *rusticella* on the Official List, with the former being given precedence

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

nigricana, *Pyralis*, Fabricius, 1794, *Entomologia Systematica*, vol. 3(2), p. 276.

rusticella, *Phalaena*, Clerck, 1759, *Icones Insectorum rariorum*, pl. 10, fig. 11.

OPINION 1529

Ceutorhynchus Germar, 1824, *Rhinoncus* Schoenherr, 1825 and *Curculio assimilis* Paykull, 1792 (Insecta, Diptera): conserved, and *Curculio assimilis* Paykull, 1792 and *Curculio pericarpus* Linnaeus, 1758 designated as the type species of *Ceutorhynchus* and *Rhinoncus* respectively

Ruling

(1) Under the plenary powers:

- (a) the specific name *assimilis* Fabricius, 1775, as published in the binomen *Curculio assimilis*, and all other uses of that name prior to the publication of *Curculio assimilis* Paykull, 1792, are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (b) the following generic names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:
 - (i) *Falciger* Dejean, 1821;
 - (ii) *Campylirhynchus* Dejean, 1821.

(2) Under the plenary powers:

- (a) all designations of type species for the nominal genus *Ceutorhynchus* Germar, 1824 prior to that by Thompson (1859) of *Curculio assimilis* Paykull, 1792 are hereby set aside;
- (b) all designations of type species for the nominal genus *Rhinoncus* Schoenherr, 1825 prior to that by Westwood (1838) of *Curculio pericarpus* Linnaeus, 1758 are hereby set aside.

(3) The following names are hereby placed on the Official List of Generic Names in Zoology:

- (a) *Ceutorhynchus* Germar, 1824 (gender: masculine), type species by designation under the plenary powers in (2)(a) above, *Curculio assimilis* Paykull, 1792;
- (b) *Rhinoncus* Schoenherr, 1825 (gender: masculine), type species by designation under the plenary powers in (2)(b) above, *Curculio pericarpus* Linnaeus, 1758;
- (c) *Mononychus* Germar, 1824 (gender: masculine), type species by subsequent designation by Schoenherr (1826) *Curculio pseudacori* Fabricius, 1792 (a junior subjective synonym of *Curculio punctumalbum* Herbst, 1784);
- (d) *Phytobius* Dejean, 1835 (gender: masculine), type species by subsequent designation by Thompson (1859) *Curculio quadrituberculatus* Fabricius, 1787;
- (e) *Coeliodes* Schoenherr, 1837 (gender: masculine), type species by original designation *Curculio quercus* Fabricius, 1787 (a junior primary homonym replaced by *Curculio dryados* Gmelin, 1790).

(4) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *assimilis* Paykull, 1792, as published in the binomen *Curculio assimilis* (specific name of the type species of *Ceutorhynchus* Germar, 1824);
- (b) *pericarpus* Linnaeus, 1758, as published in the binomen *Curculio pericarpus* (specific name of the type species of *Rhinoncus* Schoenherr, 1825);

- (c) *punctumalbum* Herbst, 1784, as published in the binomen *Curculio punctumalbum* (senior subjective synonym of *Curculio pseudacori* Fabricius, 1792, the type species of *Mononychus* Germar, 1824);
 - (d) *quadrituberculatus* Fabricius, 1787, as published in the binomen *Curculio quadrituberculatus* (specific name of the type species of *Phytobius* Dejean, 1835);
 - (e) *dryados* Gmelin, 1790, as published in the binomen *Curculio dryados*, the oldest available synonym of *Curculio quercus* Fabricius, 1787, rejected because of primary homonymy (specific name of the type species of *Coeliodes* Schoenherr, 1837).
- (5) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:
- (a) *Falciger* Dejean, 1821, as suppressed in (1)(b)(i) above;
 - (b) *Campylirhynchus* Dejean, 1821, as suppressed in (1)(b)(ii) above;
 - (c) *Compylirhynchus* Hummel, 1823 (an incorrect subsequent spelling of *Campylirhynchus* Dejean, 1821).
- (6) the name *assimilis* Fabricius, 1775, as published in the binomen *Curculio assimilis* and as suppressed in (1)(a) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Cases 2219 and 2593

An application for the conservation of *Ceutorhynchus* Germar, 1824 and *Rhinoncus* Schoenherr, 1825, and designation of type species for these genera, was received from Dr H. Silfverberg (*Universitets Zoologiska Museum, Helsingfors, Finland*) on 10 March 1977. After correspondence the case was published in BZN 36: 252–256 (February 1980). Notice of the case was sent to appropriate journals. Following publication of the first application (Case 2219) it became apparent that there was a senior homonym of one of the proposed type species. The second application (Case 2593), which sought to suppress this senior homonym, was published in BZN 44: 174–175 (September 1987). Supportive comments for the original application were received from Dr M. G. Morris (*Institute of Terrestrial Ecology, Wareham, Dorset, U.K.*) and Mr R. T. Thompson (*British Museum (Natural History), London, U.K.*). The latter also pointed out that *Rhinoncus* Schoenherr dates from 1825 (*Isis von Oken* 9, col. 586). Dr Silfverberg discovered after the publication of Case 2219 that Hummel (1823, p. 24) published the generic name *Compylirhynchus*, including in it three of the species in Dejean's *Campylirhynchus*. There is no reason to treat Hummel's name as other than an incorrect subsequent spelling of *Campylirhynchus*, the suppression of which was requested in Case 2219.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 36: 253–255; 44: 174, together with the additional proposal to place *Compylirhynchus* Hummel, 1823 on the Official Index. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 16: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink
Negative votes — 1: Lehtinen.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

assimilis, *Curculio*, Fabricius, 1775, *Systema Entomologiae*, p. 134.

assimilis, *Curculio*, Paykull, 1792, *Monographia Curculionum Sueciae*, p. 69.

Campylirhynchus Dejean, 1821, *Catalogue de la Collection de Coléoptères de M. le Baron Dejean*, p. 84.

Ceutorhynchus Germar, 1824, *Insectorum species novae aut minus cognitae*, p. 214.

Coeliodes Schoenherr, 1837, *Genera et species Curculionidum*, vol. 4, p. 282.

Compylirhynchus Hummel, 1823, *Essais Entomologiques*, vol. 1, no. 3, p. 24.

dryados, *Curculio*, Gmelin, 1790, *Caroli Linnaei Systema Naturae, editio 13 aucta, reformata*, vol. 1, part 4, p. 1748.

Falciger Dejean, 1821, *Catalogue de la Collection de Coléoptères de M. le Baron Dejean*, p. 84.

Mononychus Germar, 1824, *Insectorum species novae aut minus cognitae*, p. 241.

pericarpus, *Curculio*, Linnaeus, 1758, *Systema naturae*, Ed. 10, p. 380.

Phytobius Dejean, 1835, *Catalogue des Coléoptères de la collection de M. le Comte Dejean*, Ed. 2, p. 282.

punctumalbum, *Curculio*, Herbst in Fuessly, 1784, *Archiv der Insektengeschichte*, Heft 5, pl. 74.

quadrutuberculatus, *Curculio*, Fabricius, 1787, *Mantissa Insectorum*, vol. 1, p. 100.

Rhinoncus Schoenherr, 1825, *Isis von Oken*, 9, col. 586.

OPINION 1530

***Coeloides* Wesmael, 1838 (Insecta, Hymenoptera): *Coeloides scolyticida* Wesmael, 1838 designated as the type species**

Ruling

(1) Under the plenary powers all designations of type species for the nominal genus *Coeloides* Wesmael, 1838 prior to that by Telenga (1936) of *Coeloides scolyticida* Wesmael, 1838 are hereby set aside.

(2) The name *Coeloides* Wesmael, 1838 (gender: masculine), type species by subsequent designation by Telenga (1936) *Coeloides scolyticida* Wesmael, 1838, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *scolyticida* Wesmael, 1838, as published in the binomen *Coeloides scolyticida* (specific name of the type species of *Coeloides* Wesmael, 1838) is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2360

An application for the designation of *Coeloides scolyticida* Wesmael, 1838 as the type species of *Coeloides* Wesmael, 1838 was received from Dr C. van Achterberg (*Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands*) on 8 September 1980. *C. scolyticida* is the name provisionally proposed by Wesmael, when erecting *Coeloides*, for one of the two included species in case his identification of it as *Bracon initiator* Fabricius, 1793 was incorrect; subsequent work showed this to be so. After correspondence the case was published in BZN 44: 103–104 (June 1987). Notice of the case was sent to appropriate journals.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 103, with proposal (1) altered to take account of the fact that the desired type designation had been made by Telenga (1936). At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Coeloides Wesmael, 1838, *Nouveaux Mémoires de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles*, 11: 59.

scolyticida, *Coeloides*, Wesmael, 1838, *Nouveaux Mémoires de l'Académie Royale des Sciences et Belles-Lettres de Bruxelles*, 11: 61.

The reference for the designation of *scolyticida* Wesmael, 1838 as the type species of *Coeloides* Wesmael, 1838 is:

Telenga, N. A. 1936. Insectes, Hyménoptères, Family BRACONIDAE, pars 1. *Faune de l'URSS (Institut Zoologique de l'Académie des Sciences de l'URSS)* 5(2): xvi, 402 pp. Académie des Sciences de l'URSS, Moscou, Leningrad. [In Russian].

OPINION 1531

***Disophrys* Foerster, 1862 (Insecta, Hymenoptera): *Agathis caesa* Klug, 1835 designated as the type species**

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Disophrys* Foerster, 1862 are hereby set aside and *Agathis caesa* Klug, 1835 is designated as type species.

(2) The name *Disophrys* Foerster, 1862 (gender: feminine), type species by designation under the plenary powers in (1) above, *Agathis caesa* Klug, 1835, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *caesa* Klug, 1835, as published in the binomen *Agathis caesa* (specific name of the type species of *Disophrys* Foerster, 1862) is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2583

An application for the designation of *Agathis caesa* Klug, 1835 as the type species of *Disophrys* Foerster, 1862 was received from Dr C. van Achterberg (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) on 12 September 1986. After correspondence the case was published in BZN 44: 105–106 (June 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 105. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 17: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — none.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

caesa, *Agathis*, Klug, 1835, In Walzl, *Reise durch Tyrol Oberitalien und Piemont nach den südlichen Spanien*, vol. 2, p. 89.

Disophrys Foerster, 1862, *Verhandlungen des Naturhistorischen Vereins der Preussischen Rheinlande und Westfalens*, 19: 246.

OPINION 1532

Siphonosoma vastum Selenka, De Man & Bülow, 1884, *Phascolosoma stephensoni* Stephen, 1942, *Phascolosoma scolops* Selenka, De Man & Bülow, 1884 and *Phascolosoma pacificum* Keferstein, 1866 (Sipuncula): specific names conserved

Ruling

(1) Under the plenary powers the following specific names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:

- (a) *violaceus* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phascolosomum*) *violaceus*;
- (b) *spinicauda* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *spinicauda*;
- (c) *guttatus* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *guttatus*;
- (d) *javanensis* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *javanensis*.

(2) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *vastus* Selenka, De Man & Bülow, 1884, as published in the binomen *Sipunculus* *vastus*;
- (b) *stephensoni* Stephen, 1942, as published in the binomen *Physcosoma stephensoni*;
- (c) *scolops* Selenka, De Man & Bülow, 1884, as published in the binomen *Phymosoma scolops*;
- (d) *pacificum* Keferstein, 1866, as published in the binomen *Phascolosoma pacificum*.

(3) The following names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology:

- (a) *violaceus* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phascolosomum*) *violaceus* and as suppressed in (1)(a) above;
- (b) *spinicauda* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *spinicauda* and as suppressed in (1)(b) above;
- (c) *guttatus* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *guttatus* and as suppressed in (1)(c) above;
- (d) *javanensis* De Quatrefages, 1865, as published in the binomen *Sipunculus* (*Phymosomum*) *javanensis* and as suppressed in (1)(d) above.

History of Case 2450

An application for the conservation of four sipunculan names was received from Dr J. I. Saiz Salinas (*Universidad del Pais Vasco, Bilbao, Spain*) on 8 September 1983. After correspondence the case was published in BZN 44: 89–91 (June 1987). Notice of the case was sent to appropriate journals. A comment in support by Professor E. B. Cutler (*Utica College of Syracuse University, Utica, New York, U.S.A.*) was published in BZN 44: 261 (December 1987).

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 90. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 13: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kraus, Melville, Ride, Savage, Schuster, Starobogatov, Uéno

Negative votes — 4: Kabata, Lehtinen, Mroczkowski and Willink.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Kabata commented that he did not consider unacceptable the inconvenience which might be caused if the senior names were adopted. Willink commented that as the types of Quatrefages have now been studied and recognised the senior names could be used. Bayer said that he supported the application as two of the species concerned in the application (*Phascolosoma scolops* and *P. pacificum*) are widespread and have served as a basis for a substantial number of publications in the fields of ecology, physiology and biochemistry, in addition to having numerous references in the taxonomic literature.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

guttatus, *Sipunculus* (*Phymosomum*), De Quatrefages, 1865, *Histoire Naturelle des Annelés marins et d'eau douce. Annélides et Géphyriens*, p. 621.

javanensis, *Sipunculus* (*Phymosomum*), De Quatrefages, 1865, *Histoire Naturelle des Annelés marins et d'eau douce. Annélides et Géphyriens*, p. 622.

pacificum, *Phascolosoma*, Keferstein, 1866, *Nachrichten von der Königlichen Gesellschaft der Wissenschaften (und der Georg-Augusts-Universität)*, 1866(14): 221.

scolops, *Phymosoma*, Selenka, De Man & Bülow, 1884, *Reisen im Archipel der Philippinen von Dr C. Semper. Zweiter Theil. Wissenschaften Resultate*, p. 75.

spinicauda, *Sipunculus* (*Phymosomum*), De Quatrefages, 1865, *Histoire Naturelle des Annelés marins et d'eau douce. Annélides et Géphyriens*, p. 621.

stephensoni, *Physcosoma*, Stephen, 1942, *Annals of the Natal Museum*, 10(2): 250.

vastus, *Sipunculus*, Selenka, De Man & Bülow, 1884, *Reisen im Archipel der Philippinen von Dr C. Semper. Zweiter Theil. Wissenschaften Resultate*, p. 103.

violaceus, *Sipunculus* (*Phascolosomum*), De Quatrefages, 1865, *Histoire Naturelle des Annelés, marins et d'eau douce. Annélides et Géphyriens*, p. 619.

OPINION 1533

Holothuria arenicola Semper, 1868 (Echinodermata, Holothuroidea): specific name conserved

Ruling

(1) Under the plenary powers the following specific names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:

(a) *humilis* Selenka, 1867, as published in the binomen *Holothuria humilis*;

(b) *brandtii* Selenka, 1867, as published in the binomen *Holothuria brandtii*.

(2) The name *arenicola* Semper, 1868, as published in the binomen *Holothuria arenicola*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The following names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology:

(a) *humilis* Selenka, 1867, as published in the binomen *Holothuria humilis* and as suppressed in (1)(a) above;

(b) *brandtii* Selenka, 1867, as published in the binomen *Holothuria brandtii* and as suppressed in (1)(b) above.

History of Case 2415

An application for the conservation of *Holothuria arenicola* Semper, 1868 was received from Drs D. L. Pawson (*National Museum of Natural History, Washington, U.S.A.*) and J. E. Miller (*Harbor Branch Oceanographic Institution, Florida, U.S.A.*) on 8 July 1982. After correspondence the case was published in BZN 44: 114–115 (June 1987). Notice of the case was sent to appropriate journals.

With relevance to para. 2 of the application, Clark & Rowe (1967, BZN 24: 99 and 1982, BZN 39: 29) pointed out that Ludwig (1881, p. 595) had, by examination of the type specimens, found that *Sporadipus maculatus* Brandt, 1835 (p. 46) was conspecific with *Holothuria arenicola* Semper, 1868. Selenka (1867, p. 339) had regarded *S. maculatus* as congeneric with *H. (Microlethe) maculata* Brandt, 1835 (p. 54), and, acting as a first reviser, had given the replacement name *brandtii* for the former species. Both Brandt's names *maculata*, which have caused much confusion, are junior homonyms of *H. maculata* Chamisso & Eysenhardt, 1821. The valid specific name for *H. (M.) maculata* Brandt, 1835 is *nobilis* Selenka, 1867 (see BZN 24: 100). *H. brandtii* Selenka, 1867 has not been used as valid, and Clark & Rowe (see above) proposed its suppression to conserve *H. arenicola*; this additional proposal was incorporated in the voting papers.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 115, together with an additional proposal to suppress *H. brandtii* Selenka, 1867 and place it on the Official Index. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 15: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Melville, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 2: Lehtinen and Mroczkowski.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Mroczkowski considered that the relative precedence procedure should be applied as the names *brandtii* Selenka, 1867, *humilis* Selenka, 1867 and *arenicola* Semper, 1868 are only subjective synonyms.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

arenicola, *Holothuria*, Semper, 1868, *Reisen im Archipel der Philippinen II*, vol. 1, p. 81.

brandtii, *Holothuria*, Selenka, 1867, *Zeitschrift für Wissenschaftliche Zoologie*, 17: 339.

humilis, *Holothuria*, Selenka, 1867, *Zeitschrift für Wissenschaftliche Zoologie*, 17: 339.

OPINION 1534

Sternotherus Gray, 1825 and *Pelusios* Wagler, 1830 (Reptilia, Testudines): conserved

Ruling

(1) Under the plenary powers the generic name *Sternotherus* Bell, 1825 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The following names are hereby placed on the Official List of Generic Names in Zoology:

- (a) *Sternotherus* Gray, 1825 (gender: masculine), type species by subsequent designation by Stejneger (1902), *Testudo odorata* Latreille, 1801;
- (b) *Pelusios* Wagler, 1830 (gender: masculine), type species by subsequent designation by Fitzinger (1843), *Testudo subnigra* Lacépède in Bonnaterre, 1789 (valid name at the time of this ruling of *Testudo subnigra* Lacépède, 1788;
- (c) *Pelomedusa* Wagler, 1830 (gender: feminine), type species by monotypy *Testudo galeata* Schoepff, 1792;
- (d) *Kinosternon* Spix, 1824 (gender: neuter), type species by subsequent designation by Bell (1828), *Kinosternon longicaudatum* Spix, 1824.

(3) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *odorata* Latreille, 1801, as published in the binomen *Testudo odorata* (specific name of the type species of *Sternotherus* Gray, 1825);
- (b) *subnigra* Lacépède in Bonnaterre, 1789, as published in the binomen *Testudo subnigra* (specific name of the type species of *Pelusios* Wagler, 1830);
- (c) *galeata* Schoepff, 1792, as published in the binomen *Testudo galeata* (specific name of the type species of *Pelomedusa* Wagler, 1830);
- (d) *longicaudatum* Spix, 1824, as published in the binomen *Kinosternon longicaudatum* (specific name of the type species of *Kinosternon* Spix, 1824).

(4) The following names are hereby placed on the Official List of Family-Group Names in Zoology:

- (a) PELOMEDUSIDAE Cope, 1868 (type genus *Pelomedusa* Wagler, 1830);
- (b) KINOSTERNIDAE Agassiz, 1857 (spelling corrected; type genus *Kinosternon* Spix, 1824).

(5) The name *Sternotherus* Bell, 1825 as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

(6) The name STERNOTHAERINA Bell, 1825 (type genus *Sternotherus* Bell, 1825, suppressed in (1) above) is hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology.

History of Case 2278

An application for the conservation of *Sternotherus* Gray, 1825 and *Pelusios* Wagler, 1830 (two turtle genera) was received from Drs H. M. Smith, R. B. Smith and D. Chiszar (University of Colorado, Colorado, U.S.A.) on 1 August 1978. After correspondence the case was published in BZN 37: 124–128 (June 1980). Notice of the

case was sent to appropriate journals. An extended comment by Drs R. Bour & A. Dubois (*Muséum National d'Histoire Naturelle, Paris, France*) was published in BZN 41: 198–204 (November 1984). It contained additional and modified proposals, but was in basic agreement with the original application. In 1985, and again in 1986, Drs Bour & Dubois were sent some minor queries relating to their comment but no reply was received. After voting it was found that the reference for *subnigra* should have been as given below in the original references. This point is due to Lacépède's 1788 work being placed on the Official Index in 1987 (Opinion 1463), the reference below being that of the first validly published name for the taxon in question.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 37: 127, with some of the modifications proposed by Bour & Dubois. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 16: Bayer, Cocks, Corliss, Hahn, Halvorsen, Heppell, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Uéno, Willink

Negative votes — 1: Starobogatov.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

galeata, Testudo, Schoepff, 1792, *Historia testudinum iconibus illustrata*, p. 12.

KINOSTERNIDAE Agassiz, 1857, *Contributions to the natural history of the United States*, Monograph 1, parts 2 and 3, p. 346.

Kinosternon Spix, 1824, *Animalia nova, sive species novae testudinem*, p. 17.

longicaudatum, *Kinosternon*, Spix, 1824, *Animalia nova, sive species novae testudinem*, p. 17.

odorata, Testudo, Latreille, 1801, *Histoire naturelle des Reptiles*, vol. 1, p. 122.

Pelomedusa Wagler, 1830, *Natürliches System der Amphibien* . . . , p. 136.

PELOMEDUSIDAE Cope, 1868, *Proceedings of the Academy of Natural Sciences of Philadelphia*, 1868: 119.

Pelusios Wagler, 1830, *Natürliches System der Amphibien* . . . , p. 136.

STERNOTHAERINA Bell, 1825, *Zoological Journal*, 2: 302.

Sternothaerus Bell, 1825, *Zoological Journal*, 2: 305.

Sternotherus Gray, 1825, *Annals of Philosophy*, (2)10: 211.

subnigra, Testudo, Lacépède in Bonnatere, 1789, *Tableau encyclopédique et méthodique des trois règnes de la nature; erpétologie*, p. 30.

OPINION 1535

***Halianassa studeri* von Meyer, 1838 (Mammalia, Sirenia): neotype designated; and *Halitherium* Kaup, 1838 (Mammalia, Sirenia): *Pugmeodon schinzii* Kaup, 1838 designated as the type species**

Ruling

(1) Under the plenary powers the correct original spelling of the generic name *Halytherium* Kaup, 1838 is deemed to be *Halitherium*.

(2) Under the plenary powers all previous designations of type specimens for the nominal species *Halianassa studeri* von Meyer, 1838 are hereby set aside and the fossil premolar from Flonheim, West Germany, bearing the number Az 48 in the Hessisches Landesmuseum, Darmstadt (the holotype of *Pugmeodon schinzii* Kaup, 1838) is designated as the neotype.

(3) Under the plenary powers all previous designations of type species for the nominal genus *Halitherium* Kaup, 1838 (spelling confirmed in (1) above) are hereby set aside and *Pugmeodon schinzii* Kaup, 1838 is designated as type species.

(4) The name *Halitherium* (emendation of *Halytherium*) Kaup, 1838 (gender: neuter), type species by designation under the plenary powers in (3) above, *Pugmeodon schinzii* Kaup, 1838, is hereby placed on the Official List of Generic Names in Zoology.

(5) The name *schinzii* Kaup, 1838, as published in the binomen *Pugmeodon schinzii* (specific name of the type species of *Halitherium* Kaup, 1838) is hereby placed on the Official List of Specific Names in Zoology.

(6) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:

(a) *Halianassa* von Meyer, 1838 (a junior objective synonym of *Halitherium* Kaup, 1838);

(b) *Halytherium* Kaup, 1838 (spelling emended to *Halitherium* as ruled in (1) above).

(7) The name *studeri* von Meyer, 1838, as published in the binomen *Halianassa studeri* and as interpreted by the neotype designated in (2) above (a junior objective synonym of *schinzii* Kaup, 1838, as published in the binomen *Pugmeodon schinzii*) is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2569

An application for the designation of a neotype for *Halianassa studeri* von Meyer, 1838, and of *Pugmeodon schinzii* Kaup, 1838 as the type species of *Halitherium* Kaup, 1838, was received from Dr D. P. Domning (*Department of Anatomy, Howard University, Washington, D.C., U.S.A.*) on 12 May 1986. After correspondence the case was published in BZN 44: 122–125 (June 1987). Notice of the case was sent to appropriate journals. Three members of the Committee on Mammal Names of the International Theriological Congress (Drs S. B. George, D. Kock & J. Meester) supported the application. Drs Kock & Meester both suggested that suppression of *H. studeri* would have solved the problem in maintaining the stability of nomenclature. A comment by Dr J. J. Hooker (*British Museum (Natural History), London, U.K.*) also suggested the latter course.

Decision of the Commission

On 1 September 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 124. At the close of the voting period on 1 December 1988 the votes were as follows:

Affirmative votes — 16: Bayer, Cocks, Corliss, Hahn, Halvorsen, Kabata, Kraus, Lehtinen, Melville, Mroczkowski, Ride, Savage, Schuster, Starobogatov, Uéno, Willink

Negative votes — 1: Heppell.

No votes were returned by Dupuis, Gruchy and Trjapitzin.

Cogger, Holthuis and Thompson were on leave of absence.

Heppell voted against the original proposals as he agreed with the members of the Specialist Committee and Dr Hooker that the problem would best be resolved by suppression of the names *Halianassa* and *Halianassa studeri* for the purposes of the Principle of Priority.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

Halianassa von Meyer, 1838, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **1838**: 667.

Halitherium Kaup, 1838, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **1838**: 536.

Halytherium Kaup, 1838, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **1838**: 319, pl. 2.

schinzii, *Pugmeodon*, Kaup, 1838, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **1838**: 319, pl. 2.

studerii, *Halianassa*, von Meyer, 1838, *Neues Jahrbuch für Mineralogie, Geologie und Paläontologie*, **1838**: 667.

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INSTRUCTIONS TO AUTHORS

The following notes are primarily for those preparing applications to the Commission; other authors should comply with the relevant sections. Parts of the Bulletin since 44 (1) should be consulted as examples.

Title. This should be written in lower case letters and include the names to be conserved. A specific name should be cited in the original binomen, with the current binomen in parentheses.

Author's name. Full postal address should be given.

Abstract. This will be prepared by the Commission Secretariat.

Text. Typed in double spacing, this should consist of numbered paragraphs setting out the details of the case and leading to a final paragraph of formal proposals. Text references should give dates and page numbers in parentheses, e.g. 'Daudin (1800, p. 39) described . . . '.

References. These should be given for all authors cited. The titles of periodicals should be *in full* and be underlined; numbers of volumes, parts, etc. should be in arabic figures, separated by a colon from page numbers. Book titles should be underlined and followed by the number of pages, the publisher and the place of publication.

Submission of application. Two copies should be sent to the address on the inside front cover. The Secretariat is willing to offer additional advice at an early stage in the preparation of manuscripts.

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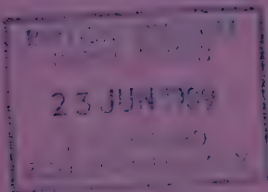
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on Zoological Nomenclature*



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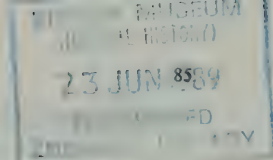
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BULLETIN OF ZOOLOGICAL NOMENCLATURE

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23 June 1989

Notices

(a) *Invitation to comment.* The Commission is entitled to start to vote on applications published in the *Bulletin of Zoological Nomenclature* six months after the publication of each application. This period is normally extended to enable comments to be submitted. Any zoologist who wishes to comment on any of the applications is invited to send his contribution, in duplicate, to the Secretary of the Commission as quickly as possible, and in any case in time to reach the Secretary within twelve months of the date of publication of the application.

(b) *Invitation to contribute general articles.* At present the *Bulletin* comprises mainly applications concerning names of particular animals or groups of animals, resulting comments and the Commission's eventual rulings (Opinions). Proposed amendments to the Code are also published for discussion.

Articles or notes of a more general nature are actively welcomed provided that they raise nomenclatural issues, although they may well deal with taxonomic matters for illustrative purposes. It should be the aim of such contributions to interest an audience wider than some small group of specialists.

(c) *Receipt of new applications.* The following new applications have been received since going to press for volume 46, part 1 (published on 29 March 1989):

- (1) CLAVIDAE McGrady, 1859 (Cnidaria, Hydrozoa) and CLAVINAE Casey, 1904 (Mollusca, Gastropoda): a proposal to remove the homonymy. (Case 2710). W. O. Cernohorsky & A. V. Sysoev.
- (2) *Shoemakerella* Pirlot, 1936 (Crustacea, Amphipoda): proposed designation of *Lysianax cubensis* Stebbing, 1897 as the type species. (Case 2711). J. K. Lowry & H. E. Stoddart.
- (3) *Acrophaga* Brauer & Bergenstamm, 1891 (Insecta, Diptera): proposed designation of *Calliphora vicina* Robineau-Desvoidy, 1830 as the type species, and *Musca carnivora* Fabricius, 1794: proposed suppression of the specific name. (Case 2712). K. Rognes.
- (4) COLYDIIDAE Erichson, 1845 (Insecta, Coleoptera): proposed precedence over CERYLONIDAE Billberg, 1820 and SARROTRIIDAE Billberg, 1820; and *Cerylon* Latreille, 1802: proposed conservation of *Lyctus histeroideus* Fabricius, 1792 as the type species. (Case 2713). H. Silfverberg.
- (5) *Pleuractis* Verrill, 1864 (Cnidaria, Anthozoa): proposed designation of *Fungia paumotensis* Stutchbury, 1833 as the type species. (Case 2714). B. W. Hoeksema.
- (6) *Lepomis* Rafinesque, 1819 (Osteichthyes, Perciformes): proposed fixation of masculine gender for the name. (Case 2715). D. A. Etnier & M. L. Warren.

- (7) *Ceratopogon puncticollis* Becker, 1903 (currently *Culicoides puncticollis*; Insecta, Diptera): proposed precedence over *Ceratopogon algecirensis* Strobl, 1900. (Case 2716). J. Boorman.
- (8) *Steno attenuatus* Gray, 1846 (currently *Stenella attenuata*; Mammalia, Cetacea): proposed conservation of the specific name. (Case 2717). W. F. Perrin.
- (9) *Musca heracleii* Linnaeus, 1758 (currently *Euleia heraclei*; Insecta, Diptera): proposed conservation of *heraclei* as the correct spelling of the specific name. (Case 2719). I. M. White & P. R. Seymour.
- (10) *Dalla* Mabille, 1904 (Insecta, Lepidoptera): proposed conservation. (Case 2720). S. R. Steinhauser, L. D. Miller, J. Y. Miller & C. A. Bridges.
- (11) *Bathynomus* A. Milne Edwards, 1879 (Crustacea, Isopoda): proposed precedence over *Palaega* Woodward, 1870. (Case 2721). J. W. Martin & H. G. Kuck.
- (12) *Rivulus marmoratus* Poey, 1880 (Osteichthyes, Cyprinodontiformes): proposed conservation of the specific name. (Case 2722). K. J. Lazara & M. L. Smith.

(d) *Rulings of the Commission.* Each Opinion, Declaration and Direction published in the *Bulletin* constitutes an official ruling of the International Commission on Zoological Nomenclature, by virtue of the votes recorded, and comes into force on the day of publication of the *Bulletin*.

Official Lists and Indexes of Names and Works in Zoology—Supplement

The Official Lists and Indexes of Names and Works in Zoology was published in 1987. This gave all the names and works on which the International Commission on Zoological Nomenclature had ruled since it was set up in 1895 up to December 1985. There were about 9,900 entries.

In the three years 1986–88, 544 names and 3 works have been added to the Official Lists and Indexes. A supplement has been prepared giving these additional entries, together with some amendments to entries in the 1987 volume.

Copies of this supplement can be obtained without charge from either of the following addresses, from which the *Official Lists and Indexes of Names and Works in Zoology* can be ordered at the price shown:

The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £60 or \$110

or

The American Association for Zoological Nomenclature, c/o NHB Stop 163, National Museum of Natural History, Washington D.C. 20560, U.S.A. Price \$110 (\$100 to members of A.A.Z.N.).

Call for nominations for new members of the International Commission on Zoological Nomenclature

The following members of the Commission reach the end of their terms of service at the close of the XXIV General Assembly of the International Union of Biological Sciences to be held in Amsterdam, in July 1991: Dr H. G. Cogger (Australia, Herpetology); Prof Dr O. Kraus (Fed. Rep. Germany, Arachnology); Dr M. Mroczkowski (Poland, Coleoptera); Dr W. D. L. Ride (Australia, Mammalia). A further vacancy arises from the resignation of Dr G. C. Gruchy (Canada, Ichthyology).

The addresses and specialist fields of the present members of the Commission may be found in the *Bulletin of Zoological Nomenclature*, 46(1) (March 1989). Under Article 3b of the Commission's Constitution a member whose term of service has terminated is not eligible for immediate re-election unless the Council of the Commission has decided to the contrary.

The Commission now invites nominations, by any person or institution, of candidates for membership. Article 2b of the Constitution prescribes that:

'The members of the Commission shall be eminent scientists, irrespective of nationality, with a distinguished record in any branch of zoology, who are known to have an interest in zoological nomenclature'.

(It should be noted that 'zoology' here includes the applied biological sciences (medicine, agriculture, etc.) which use zoological names).

Nominations made since September 1987 will be reconsidered automatically and need not be repeated. Additional nominations, giving the date of birth, nationality and qualifications (by the criteria mentioned above) of each candidate should be sent by 15 June 1990 to: *The Executive Secretary, International Commission on Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.*

Case 2657

Marssonopora Lang, 1914 (Bryozoa, Cheilostomata): proposed designation of *Membranipora densispina* Levinsen, 1925 as the type species

P. D. Taylor

Department of Palaeontology, British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.

E. Voigt

Geologisch-Paläontologisches Institut und Museum, Universität Hamburg, D2000 Hamburg 13, Fed. Rep. Germany

Abstract. The purpose of this application is the designation of the nominal species *Membranipora densispina* Levinsen, 1925 as the type species of the Cretaceous bryozoan genus *Marssonopora* Lang, 1914, since the original type species (by monotypy), *Cellepora dispersa* v. Hagenow, 1839, was based on misidentified material. The proposed designation is in accordance with usage of the last 75 years.

1. Lang (1914b, p. 438) established the nominal genus *Marssonopora* to which he referred a single species, *Cellepora dispersa* v. Hagenow, 1839, which he gave as the 'genotype'. *Cellepora dispersa* had been first briefly described by v. Hagenow (1839, p. 280) without figure, and later redescribed and figured by v. Hagenow (in Geinitz, 1846, p. 629, pl. 23b, fig. 55). Although v. Hagenow's type material of this species is known to have been destroyed (Voigt, 1959), the species is clearly not the same as that identified as *Cellepora dispersa* v. Hagenow by Lang (1914b) when describing *Marssonopora*. This misidentification was originally pointed out by Voigt (1930, p. 412).

2. The material of *Cellepora dispersa* studied by v. Hagenow (1839, p. 280) and also by v. Hagenow in Geinitz (1846) came from the Baltic island of Rügen (now in the German Democratic Republic), from deposits regarded as Lower Maastrichtian. V. Hagenow's original and subsequent descriptions both made clear the runner-like form of the colony and long autozooids with thread-like proximal parts (caudae). The large size of colonies encrusting 'Gryphaea' shells was noted by v. Hagenow in Geinitz (1846). Spine bases, avicularia and ovicells were not mentioned in either of v. Hagenow's descriptions of *Cellepora dispersa*, or in a later redescription by Marsson (1887, p. 91, pl. 9, fig. 9).

3. The '*Cellepora dispersa* v. Hagenow' described by Lang (1914b) was also from Rügen. Lang's only figured specimen (pl. 34, fig. 3), registered in the collections of the British Museum (Natural History) as D. 11498, has the same runner-like form and long, caudate autozooids as v. Hagenow's species. However, Lang's figured specimen

and other specimens cited by him as '*Cellepora dispersa* v. Hagenow' differ from v. Hagenow's species in four important respects:

(a) a large number of spine bases occur on the mural rim surrounding the opesia of the autozooids (described by Lang as beads on the termen). In well-described specimens the spines from these bases are seen to overarch the opesia (see Voigt, 1987, figs. 2H, J);

(b) ovicells are present;

(c) small heterozooids (?avicularia) are often present between successive autozooids;

(d) all known colonies are small in size.

4. Whereas *Cellepora dispersa* v. Hagenow in lacking ovicells appears to belong to the suborder Malacostegina Levinsen, 1902 (see d'Hondt, 1985; Taylor, 1987), the ovicellate *Cellepora dispersa* v. Hagenow sensu Lang, 1914 belongs to the order Neocheilostomina d'Hondt, 1985. Voigt (1930, p. 409, pl. 1, fig. 1) described specimens of *Cellepora dispersa* v. Hagenow, including topotypes from Rügen, and assigned the species to the malacostegine genus *Herpetopora* Lang, 1914, the type species of which is *Herpetopora anglica* Lang (1914a, p. 6) from the Upper Cretaceous. Thomas & Larwood (1960, p. 371) revised the type and several other species of *Herpetopora*, and placed the genus in subjective synonymy with *Pyripora* d'Orbigny, 1849 (type species *Criserpia pyriformis* Michelin, 1847 from the Neogene). However, Voigt (1982, p. 51) and Taylor (1988, p. 519) have given reasons for rejecting this synonymy and retaining *Herpetopora* as a separate genus.

5. *Cellepora dispersa* v. Hagenow sensu Lang, 1914 was redescribed by Voigt (1930, p. 412, pl. 1, fig. 18) as '*Marssonopora dispersa* Lang (non v. Hagenow)'. Voigt (1930) assigned two further species to *Marssonopora*: *Membranipora densispina* Levinsen, 1925 from the Lower Maastrichtian of Moen, and *Marssonopora catenularia* Voigt, 1930 from the Danian of Faxø. Although Levinsen (1925, p. 316) failed to observe heterozooids in *Membranipora densispina*, the occurrence of approximately 18 spine bases and similar sized autozooids suggests that this Lower Maastrichtian species is the same as *Cellepora dispersa* v. Hagenow sensu Lang, 1914. Two Recent species have also been referred to *Marssonopora*: *Marssonopora uncifera* Canu & Bassler, 1928 and *Marssonopora kermadecensis* Gordon, 1984.

6. Article 70 b of the Code specifies that misidentified type species should be referred to the Commission. In order to maintain nomenclatural stability, it is recommended that *Membranipora densispina* Levinsen, 1925 be designated as the type species of *Marssonopora* Lang, 1914. This is apparently the earliest available name for the species misidentified as *Cellepora dispersa* v. Hagenow, 1839 by Lang when originally proposing *Marssonopora*. The alternative choice of *Cellepora dispersa* v. Hagenow, 1839 would not only contravene current usage (e.g. Gordon, 1984) of *Marssonopora* for ovicellate runner-like cheilostomes with spinose autozooids and small heterozooids, but would place *Marssonopora* Lang, 1914 in subjective synonymy with *Herpetopora* Lang, 1914.

7. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all designations of type species for the nominal genus *Marssonopora* Lang, 1914 and to designate *Membranipora densispina* Levinsen, 1925 as the type species;

- (2) to place on the Official List of Generic Names in Zoology the name *Marssonopora* Lang, 1914 (gender; feminine), type species by designation in (1) above *Membranipora densispina* Levinsen, 1925;
- (3) to place on the Official List of Specific Names in Zoology the name *densispina* Levinsen, 1925, as published in the binomen *Membranipora densispina* (specific name of the type species of *Marssonopora* Levinsen, 1925).

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Case 2403

***Valanginites* Sayn in Kilian, 1910 (Cephalopoda, Ammonoidea): confirmation of the author of the genus, and of *Ammonites nucleus* Roemer, 1841 as its type species**

P. F. Rawson

Department of Geological Sciences, University College London, Gower Street, London, WC1E 6BT, U.K.

E. Kemper

Bundesanstalt für Geowissenschaften und Rohstoffe, Postfach 51 01 53, 3000 Hannover 51, Federal Republic of Germany

Abstract. The purpose of this application is to confirm Sayn in Kilian, 1910 as the author of the Cretaceous ammonite genus *Valanginites*, and current usage of *Ammonites nucleus* Roemer, 1841 as its type species, although the specific name was first introduced by Phillips in 1829.

1. *Valanginites* is a widely distributed early Cretaceous ammonite genus which has been discussed extensively (see Kemper, Rawson & Thieuloy, 1981, p. 274). The name was attributed to Sayn by Spath (1930, p. 149) and to Sayn in Kilian by Roman (1938, p. 386) and Khimshiashvili et al. (in Luppov & Drushchits, 1958, p. 95) but is usually assigned, erroneously, to Kilian. The type species is generally quoted as *Ammonites nucleus* Roemer, but Roemer was not the author of the name; it is desirable in the interests of stability that identity of the type species should be placed beyond doubt.

2. Kilian (1910, p. 193) first mentioned *Valanginites* as '*H. [Holcostephanus] (Valanginites) Rebouli* Sayn (in litt.)'. The specific name *rebouli* is a nomen nudum, but on page 194 he listed '*H. (Valanginites) perinflatus* Math. sp., *H. (Valanginites) Bachelardi* Sayn and *H. (Valanginites) simplus* D'Orb. sp.'.

3. On page 196 Kilian referred to 'der Gruppe des *Holc. nucleus* Roem. sp. (= *Valanginites* Sayn)' and in footnote 3 on page 196 he stated 'G. Sayn hat in dem verkiesten *Holcostephaniden*-Material der mittleren und oberen Valendis-Stufe Südost-Frankreichs folgende Beobachtungen gemacht, deren Veröffentlichungen in nächster Zeit geschehen wird. (Mündliche Mitteilung von G. Sayn.)—S. G. *Valanginites* G. Sayn: *V. Rebouli* G. Sayn, *V. Bachelardi* G. Sayn sp., *V. simplus* D'Orb. (Gruppe des *Holc. nucleus* Roem. = s.g. *Valanginites* G. Sayn—v. Koenen rechnete diese Formen zu *Polyptychites*); *V.(?) perinflatus* Math. sp.' It is thus clear that authorship of *Valanginites* was attributed to Sayn and the genus should be cited as *Valanginites* Sayn in Kilian, 1910 (Recommendation 51B of the Code).

4. In 1930, Spath (p. 149, footnote) designated *perinflatus* Matheron, 1878, as the type species of the genus, although in 1939 (p. 11, footnote 2) he stated that 'since on p. 196, Kilian definitely identified the sub-genus *Valanginites* with *Ammonites nucleus* Roemer, and questioned the generic position of *V. (?) perinflatus*, my selection is

invalid; and *V. nucleus* (Roemer) must be taken as genotype of *Valanginites*'. In the meantime, Roman (1938, p. 386) had already designated *A. nucleus* Roemer, 1841 as the type. Subsequent authors have generally accepted *nucleus* Roemer as the type species of *Valanginites*, e.g. Wright (in Moore, 1957, p. L348); Khimshiashvili et al. (in Luppov & Drushchits, 1958, p. 95); Riccardi & Westermann (1970, p. 889); Kemper, Rawson & Thieuloy (1981, p. 274); Company (1987, p. 173).

5. However, as Kemper, Rawson & Thieuloy pointed out, *Ammonites nucleus* was named and figured, without description, by Phillips in 1829 (p. 174, pl. 2, fig. 43). The holotype is in the Yorkshire Museum, York (numbered YM 415), contrary to the statement by Howarth (1962, p. 133). It is a smooth ammonite nucleus from the Speeton Clay of Speeton, England, less than 5 mm in diameter. It is probably the nucleus of a *Simbirskites* or *Polyptychites* but it is too small to be determined. The species name has not been attributed to Phillips for over 50 years and even in 1889 the species was described as 'obscure' (Lamplugh, p. 614).

6. Roemer (1841, p. 87, pl. 13, fig. 2) described and figured a much larger ammonite (about 45 mm in diameter) from Bredenbeck, north Germany, as '*Ammonites nucleus* Phillips (?)', but stressed that because Phillips' specimen was so small the specific assignation of the German specimen was uncertain. Subsequent authors, e.g. Khimshiashvili et al. (in Luppov & Drushchits, 1958, p. 95), Struckmann (1892, p. 73) and Thieuloy (1977, p. 426) interpreted the species from Roemer and attributed the name to him. Roemer's specimen is lost but a cast in the Geologisches-Paläontologisches Institut, Göttingen, was figured by Kemper, Rawson & Thieuloy (1981, pl. 38, figs 1 and 2).

7. To remove uncertainty about authorship of the genus, and to stabilise existing usage of the type species, the International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to:
 - (a) suppress the specific name *nucleus* Phillips, 1829, as published in the binomen *Ammonites nucleus*, and all other uses of that name prior to *Ammonites nucleus* Roemer, 1841, for the purposes of both the Principle of Priority and the Principle of Homonymy;
 - (b) set aside all designations of type species for *Valanginites* Sayn in Kilian, 1910 prior to that of *V. nucleus* Roemer, 1841 by Roman (1938);
- (2) to place on the Official List of Generic Names in Zoology the name *Valanginites* Sayn in Kilian, 1910 (gender: masculine), type species *Ammonites nucleus* Roemer, 1841 by the ruling in (1) (b) above;
- (3) to place on the Official List of Specific Names in Zoology the name *nucleus* Roemer, 1841, as published in the binomen *Ammonites nucleus* (specific name of the type species of *Valanginites*, Sayn in Kilian, 1910 by virtue of the proposal in (1) (b) above);
- (4) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *nucleus* Phillips, 1829, as published in the binomen *Ammonites nucleus*, and as suppressed in (1) (a) above.

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Case 2642**POLYGYRIDAE Pilsbry, 1894 (Mollusca, Gastropoda): proposed precedence over MESODONTIDAE Tryon, 1866**

K. C. Emberton

Department of Malacology, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, PA 19103, U.S.A.

Abstract. The purpose of this application is to conserve the established family-group name POLYGYRIDAE Pilsbry, 1894 for a family of terrestrial pulmonates, by giving it precedence over the senior name MESODONTIDAE Tryon, 1866, a name which has only been used as valid by one author.

1. In 1866–1867 G. W. Tryon, Jr published a monograph of the terrestrial mollusks of the United States in which he named two new subfamilies of the HELICIDAE, one of them being MESODONTINAE (vol. 2, p. 306), which included the genera *Mesodon* Rafinesque in Férussac, 1821 (vol. 3, p. 38), *Polygyra* Say, 1818 (Vol. 3, p. 157) and others. The full description (vol. 2, p. 306) was ‘Shell frequently toothed, lip broadly reflected and appressed’.

2. Pilsbry (1894), in his monumental anatomical-conchological *Guide to the Study of Helices*, erected the subfamily POLYGYRINAE (p. xxxii), in which he included *Polygyra*, *Mesodon*, and other genera. He synonymised *Mesodon* under the section *Triodopsis* of the genus *Polygyra* (p. 74).

3. In 1930 Pilsbry elevated his POLYGYRINAE to full family status as POLYGYRIDAE.

4. Volume 1, Part 2 of Pilsbry’s 1940 work retained the name POLYGYRIDAE and re-elevated *Mesodon* to generic level within the subfamily POLYGYRINAE. This work has not been succeeded as the standard identification manual for North American land Mollusca.

5. The POLYGYRIDAE are an endemic North American family (with the possible exception of one Siberian species — see Richardson, 1986). Some of the species are locally abundant. There has been a voluminous literature since 1940 (summarised in Emberton, 1986) on their systematics, ecology, behaviour, physiology and anatomy, all of it referring to the family as POLYGYRIDAE. For example, all major summaries of land pulmonate classification (Taylor & Sohl, 1962; Solem, 1978; Boss, 1982) have used the name POLYGYRIDAE. Richardson’s (1986) catalog presented synonymies and bibliographies of all species of the Polygyracea.

6. In 1956, H. B. Baker, in a typically terse article entitled *Family names in Pulmonata*, decried the then new (1955) ICZN rules, and presented a list of all the changes they would necessitate in the established nomenclature of pulmonate gastropods. He listed the changes ‘simply as an argument against these proposed amendments’ saying that he accepted none of them. Within this list (p. 138) was the first mention of MESODONTIDAE since its proposal: ‘Tryon’s (1866) Mesodontinae would be prior to Polygyrinae, 1895’ [sic].

7. The only use of the name MESODONTIDAE since Baker (1956) of which I am aware has been by Nordsieck, in his summary of the distribution of pulmonate families (1986, p. 100), with POLYGYRIDAE in synonymy, and in his 1987 revision of the HELICOIDEA, in which POLYGYRIDAE was again cited in synonymy. The names POLYGYRIDAE and Polygyracea are firmly entrenched in a voluminous malacological and other literature; substitution of the names MESODONTIDAE and Mesodontacea for these well-known and common Cretaceous-to-Recent snails poses a serious threat to nomenclatural stability.

8. The genus *Mesodon* Rafinesque is usually incorrectly cited with the date 1831. The correct citation is Rafinesque in Férussac, 1821 (p. 37). In Férussac two species (*helicinum* and *thyroidus*) are given within *Mesodon*, but *helicinum* is a nomen nudum. Thus the type of *Mesodon* is *Helix thyroidus* Say, 1817 (p. 123) by monotypy (see Johnson, 1975, concerning the date). The type of the genus *Polygyra* Say, 1818 (p. 276) is *Polygyra septemvolva* Say, 1818 (p. 278) by subsequent designation by Hermannsen (1847, p. 317).

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the family-group name POLYGYRIDAE Pilsbry, 1894 is to be given precedence over the name MESODONTIDAE Tryon, 1866 whenever the two are considered synonyms;
- (2) to place the following names on the Official List of Generic Names in Zoology:
 - (a) *Mesodon* Rafinesque in Férussac, 1821 (gender: masculine), type species *Helix thyroidus* Say, 1817, by monotypy;
 - (b) *Polygyra* Say, 1818 (gender: feminine), type species *Polygyra septemvolva* Say, 1818, by subsequent designation by Hermannsen (1847);
- (3) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *thyroidus* Say, 1817, as published in the binomen *Helix thyroidus*, specific name of the type species of *Mesodon* Rafinesque in Férussac, 1821;
 - (b) *septemvolva* Say, 1818, as published in the binomen *Polygyra septemvolva*, specific name of the type species of *Polygyra* Say, 1818;
- (4) to place the following names on the Official List of Family-Group Names in Zoology:
 - (a) POLYGYRIDAE Pilsbry, 1894 (type genus *Polygyra* Say, 1818) with the endorsement that it is to be given precedence over MESODONTIDAE Tryon, 1866 whenever the two are considered to be synonyms;
 - (b) MESODONTIDAE Tryon, 1866 (type genus *Mesodon* Rafinesque in Férussac, 1821) with the endorsement that it is not to be given priority over POLYGYRIDAE Pilsbry, 1894 whenever the two are considered to be synonyms.

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Case 2666

***Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898: proposed conservation, and *Pseudaugaptilus longiremis* Sars, 1907: proposed conservation of the specific name (both Crustacea, Copepoda)**

Kuni Hulsemann

Biologische Anstalt Helgoland, Taxonomy Group, Notkestrasse 31, D-2000 Hamburg 52, Federal Republic of Germany

Abstract. The purpose of this application is to conserve the widely-used copepod generic name *Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898, and the specific name of *Pseudaugaptilus longiremis* Sars, 1907. Both are threatened by unused senior subjective synonyms (*Isochaeta* and *I. longisetosus*).

1. Giesbrecht (1889, p. 812) proposed the genus *Isochaeta* for his new species *I. ovalis*. Farran (1926, p. 278) and Vervoort (1957, p. 128) considered *ovalis* and *Lucicutia frigida* Wolfenden, 1911 to be conspecific, and Grice (1963, p. 498) synonymised the two species. Grice wrote that the characters of the taxon were 'neither sufficient for the creation of the genus *Isochaeta* nor for the placing of the species in any but the genus *Lucicutia*'. *Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898 is a replacement name for *Leuckartia* Claus, 1862 (thought by Giesbrecht (1898, p. 110), who was followed by Neave (1939, p. 929), to be preoccupied by the coelenterate name *Leuckartia* Agassiz, 1862), and the genus contains a considerable number of species. Grice chose to use the junior generic name *Lucicutia* rather than *Isochaeta*.

2. Heptner (1965, p. 1173) drew attention to the irregular situation when he considered *Isochaeta ovalis* Giesbrecht, 1889, *Lucicutia frigida* Wolfenden, 1911 and *L. ovaliformis* Brodsky, 1950 to be one species, following a study of variability in an extensive collection of specimens. However, he also chose to use the junior name *Lucicutia* in order not to disturb stability or cause confusion. (In proposing to maintain the name *Lucicutia* he invoked the Principle of the First Reviser (Article 24 of the Code) but this is applicable only to names or nomenclatural acts published on the same date).

3. Apparently unaware of Grice's and Heptner's papers, Furuhashi (1966, p. 298) considered the species *Lucicutia ovaliformis* and *Isochaeta ovalis*, as figured by Tanaka (1963, p. 54, fig. 174), to be identical and correctly used the name *I. ovalis* for the single species. Furuhashi was not concerned with detailed taxonomy and did not consider the generic name to be used for the other *Lucicutia* species, but simply listed and placed them all in *Lucicutia*.

4. *Lucicutia* currently contains 42 species (it has formerly contained an additional 15 nominal species, but 13 of these have been synonymised at various times with previously described species, and two are nomina nuda). The great majority of these (oceanic) species live in mid and deep water; shallow-living species are also frequently encountered and regularly reported. At no other time than indicated in para. 2 has use

of the name *Lucicutia* been questioned. It has been used in many recent important faunal and systematic works, including Roe (1972, p. 1022), Björnberg (1973, p. 343) and Mauchline (1988, p. 708). A list of 50 selected publications, 30 of them after Grice (1963), is held by the Commission Secretariat. *Isochaeta* has only ever contained two (see para. 7) species (indeed, Grice (1963, p. 498) thought it was a monotypic genus) and, consequently, the name has been rarely used. There appear to be no taxonomic reasons for retaining it.

5. When Grice (1963) placed *Isochaeta ovalis* Giesbrecht, 1889 in the genus *Lucicutia* (para. 1 above), *L. ovalis* Wolfenden, 1906 became a secondary junior homonym; he (p. 498) therefore renamed the latter species as *L. gaussae*.

6. In 1892 Giesbrecht (p. 62) proposed the subfamily name 'Leukartiina', then containing the genera *Leuckartia* Claus, 1862 (type species by monotypy *L. flavicornis* Claus, 1863 (p. 183, pl. 32, figs. 1-7)), *Isochaeta* Giesbrecht, 1889 and *Disseta* Giesbrecht, 1889. Sars (1902, p. 73) raised the subfamily to the rank of family. When *Leuckartia* was found to be a junior homonym, the family-group name based on it also became unavailable and had to be replaced. By that time Giesbrecht (in Giesbrecht & Schmeil, 1898, p. 110) had replaced *Leuckartia* with his new name *Lucicutia* and Sars (1902) therefore introduced the family name LUCICUTIIDAE. This would remain the valid family name even if *Lucicutia* were to be treated as a junior synonym of *Isochaeta* (Article 40a), in contrast to the opinion expressed by Heptner (1965, p. 1173). In 1905, Sars (p. 3) transferred *Disseta* to the family HETERORHABDIDAE Sars, 1902.

7. I consider *Isochaeta longisetosus* Thompson, 1903 (p. 26) to be conspecific with *Pseudaugaptilus longiremis* Sars, 1907 (p. 24) in the family AUGAPTILIDAE Sars, 1905 (p. 4). The name *longiremis* thus becomes a junior subjective synonym of *longisetosus*. Thompson (1903) referred to his single specimen as a female; it appears to be a stage V copepodid female. His mix-up of mandible and first maxilla (Thompson, 1903, pl. 7, figs 3 and 4) may have contributed to his misplacement of the species. Heptner (1965, p. 1166) pointed out in a footnote that *I. longisetosus* could not be accommodated in the family LUCICUTIIDAE. This footnote is the only mention of the species or its status since its description. On the other hand, *P. longiremis* is based on an adequate description (Sars, 1907, p. 24; 1925, p. 310; 1924, pl. 109) of several specimens (kept in the Oceanographic Museum in Monaco with the following catalogue numbers (all prefixed MOM 34): 0246 (two specimens), 0247 (one specimen), 0253 (one specimen) and 0254 (three specimens) (Dr C. Carpine, pers. comm.)). The name has been used repeatedly during the last 50 years (Article 79c(2)); a list of 11 references between 1940 and 1982 is held by the Commission Secretariat and includes Jespersen (1940, p. 62), Park (1970, p. 541) and Matthews (1972, p. 55). Adoption now of *longisetosus* would cause quite unnecessary confusion.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the following names for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:
 - (a) the generic name *Isochaeta* Giesbrecht, 1889;
 - (b) the specific name *longisetosus* Thompson, 1903, as published in the binomen *Isochaeta longisetosus*;
- (2) to place on the Official List of Generic Names in Zoology the name *Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898 (gender: feminine), type species by indication (Article 67h) *Leuckartia flavicornis* Claus, 1863;

- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *flavicornis* Claus, 1863, as published in the binomen *Leuckartia flavicornis* (specific name of the type species of *Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898);
 - (b) *longiremis* Sars, 1907, as published in the binomen *Pseudaugaptilus longiremis*;
- (4) to place on the Official List of Family-Group Names in Zoology the name LUCICUTIIDAE Sars, 1902 (type genus *Lucicutia* Giesbrecht in Giesbrecht & Schmeil, 1898);
- (5) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Isochaeta* Giesbrecht, 1889, as suppressed in (1)(a) above;
- (6) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *longisetosus* Thompson, 1903, as published in the binomen *Isochaeta longisetosus* and as suppressed in (1)(b) above.

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Case 2624

Ranguna Bott, 1966 and Larnaudia Bott, 1966 (Crustacea, Decapoda): proposed fixation of *Thelphusa longipes* A. Milne Edwards, 1869 and *Thelphusa larnaudii* A. Milne Edwards, 1869 as the respective type species

M. Türkay

Forschungsinstitut Senckenberg, Senckenberganlage 25, D-6000 Frankfurt am Main 1, Fed. Rep. Germany

P. Naiyanetr

Chulalongkorn University, Department of Biology, Bangkok, Thailand

Abstract. The purpose of this application is the fixation of *Thelphusa longipes* A. Milne Edwards, 1869 and *Thelphusa larnaudii* A. Milne Edwards, 1869 as the respective type species of the freshwater crab genera *Ranguna* Bott, 1966 and *Larnaudia* Bott, 1966. The original selections being based on misidentified species, this solution maintains the genera in their accustomed and most suitable meaning.

1. In 1966 Bott introduced the subgenera *Ranguna* (p. 481), with type species *Potamon rangoonense* Rathbun, 1904, and the monotypic *Larnaudia* (p. 490) for *Thelphusa larnaudii* A. Milne Edwards, 1869 (p. 166). In his monograph of the European, Asiatic and Australian freshwater crabs (1970) he elevated both taxa to generic rank. In his original paper and in his 1970 monograph he figured the male pleopods of what he considered to be *rangoonense* (text fig. 15 in 1966, and pl. 38 fig. 35 in 1970) and *larnaudii* (text-fig. 26 in 1966, and pl. 39 fig. 50 in 1970).

2. We (Türkay & Naiyanetr, 1987) reexamined the types of both species in question as well as the material used by Bott, and gave detailed illustrations. We found that on neither occasion did Bott have type material of *T. larnaudii* or *P. rangoonense* before him, despite the fact that in 1970 he stated that he had. We discovered that the material he had examined and figured was a male from Assam (Senckenberg-Museum, Frankfurt a. M., SMF 2807), identified by him as *P. rangoonense*, and a male from Vietnam ['Mois-Chero, N-Cochinchina'] (Mus. nat. hist. nat., Paris, MNHN 866-77), identified as *T. larnaudii*.

3. *Potamon rangoonense* Rathbun (holotype in the Museum of Comparative Zoology, Cambridge, Mass., U.S.A.) does not belong to the genus *Ranguna* as originally defined by Bott or according to subsequent usage, and is currently in *Potamiscus* Alcock, 1910. Thus, to avoid confusion the type species of *Ranguna* Bott needs to be fixed. Acceptance of *P. rangoonense* would be highly undesirable, as this would necessitate a new name for the genus currently known as *Ranguna*. *Ranguna* as presently understood is a widely distributed genus and includes a number of species. As Bott's monograph has been, and will also in the future be, used as a base for faunistic and

taxonomic studies, a type species should be selected to stabilise the usage of *Ranguna* in its accustomed sense. We do not propose the species to which the Assam specimen belongs, as its identification is unclear. As we have said elsewhere (Türkay & Naiyanetr, 1987) it is probably an adult *Potamon pruinsum* Alcock, 1909 or *Potamon beieri* Pretzmann, 1966, a question which must remain open until a good age series is known. It would thus be much better to designate a 'typical' species of *Ranguna* as the type. We propose *Thelphusa longipes* A. Milne Edwards, 1869 (p. 183), the lectotype of which is treated in detail by Bott & Türkay (1977).

4. The lectotype of *Thelphusa larnaudii* (in the Mus. nat. hist. nat., Paris) does not belong to the genus *Larnaudia* Bott as originally defined. It is very similar to *Tiwaripotamon beusekomae* Bott, 1970. This species and those closely related to it, including *larnaudii*, differ so much from the type species of *Tiwaripotamon* (*Geothelphusa annamense* Balss, 1914) that they must be assigned to a separate genus. For this the name *Larnaudia* would be available if *Thelphusa larnaudii* in its correct sense (A. Milne Edwards, 1869) were to be accepted as type. This would not do any harm as *T. larnaudii* proper has never been collected again and the whole *larnaudii* group is very local, restricted to Thailand. The species *larnaudii* sensu Bott has also never been rediscovered and belongs to a monotypic genus apparently restricted to Vietnam. Both the species and the genus need names, and we have introduced the name *Neolarnaudia botti* Türkay & Naiyanetr, 1987 for *Larnaudia larnaudii* sensu Bott.

5. In order to maintain the current usage and stabilise the nomenclature of this group, the International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all previous designations of type species for the nominal genus *Ranguna* Bott, 1966 and to designate *Thelphusa longipes* A. Milne Edwards, 1869 as the type species;
- (2) to confirm *Thelphusa larnaudii* A. Milne Edwards, 1869 as the type species of the nominal genus *Larnaudia* Bott, 1966;
- (3) to place the following names on the Official List of Generic Names in Zoology:
 - (a) *Ranguna* Bott, 1966 (gender: feminine), type species by designation under the plenary powers in (1) above *Thelphusa longipes* A. Milne Edwards, 1869;
 - (b) *Larnaudia* Bott, 1966 (gender: feminine), type species by monotypy and confirmed in (2) above *Thelphusa larnaudii* A. Milne Edwards, 1869;
- (4) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *longipes* A. Milne Edwards, 1869, as published in the binomen *Thelphusa longipes* (specific name of the type species of *Ranguna* Bott, 1966);
 - (b) *larnaudii* A. Milne Edwards, 1869, as published in the binomen *Thelphusa larnaudii* (specific name of the type species of *Larnaudia* Bott, 1966).

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Case 2542/2

Trapezia Latreille, 1828 (Crustacea, Decapoda): proposed conservation

R. A. Cooper

Secretariat, International Commission on Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.

Abstract. The purpose of this application is to conserve the brachyuran generic name *Trapezia* Latreille, 1828, which is the type genus of the subfamily TRAPEZIINAE Miers, 1886. A case has been published and voted on by the Commission to remove homonymy between this family-group name and another in Mollusca, but this cannot be done until the name of the type genus is stabilised.

1. A case to remove the homonymy between TRAPEZIIDAE Miers, 1886 (Crustacea: type genus *Trapezia* Latreille, 1828) and TRAPEZIIDAE Lamy, 1920 (Mollusca, Bivalvia: type genus *Trapezium* Megerle von Mühlfeld, 1811) was received from Dr G. Morgan (Western Australian Museum, Perth, Australia) and published in BZN 44: 95–96 (June 1987). Notice of the case was sent to appropriate journals. A supportive comment was received from Professor L. B. Holthuis, who also suggested that the stem of *Trapezium* might be better as TRAPEZIUM-, rather than TRAPEZ-, to give a molluscan family-group name of TRAPEZIUMIDAE and avoid possible future homonymy with a family-group name derived from the hemipteran genus *Trapezus* Distant, 1882 [however, *Trapezus* was synonymised with *Cryphula* Stål, 1874 by Barber in 1918 (see Slater, J. A., 1964. *Lygaeidae of the World*, vol. 2, p. 814)].

2. On 1 September 1988 members of the Commission were invited to vote on the original proposals. The vote was carried unanimously but problems, with both the type species and the date of the genus, were found at the Opinion stage which this application seeks to resolve. Latreille (1825 p. 269) gave the generic name 'Trapézie', and in a footnote to this name refers to: 'Herbst, *Krabb*, tab. 47. fig. 6; tab. 20. fig. 115 ...'. Berthold's 1827 German translation of Latreille's work gave the name *Trapezia* (p. 255), a latinized form of Latreille's 1825 *Trapézie*. Berthold cited the same reference as given by Latreille (1825), thereby making *Trapezia* Berthold, 1827 an available name. The Herbst figures refer to the nominal species *Cancer glaberrimus* Herbst, 1790 and *Cancer rufopunctata* Herbst, 1799. The former species is the type of the genus *Tetralia* Dana (1851); the latter is still placed in *Trapezia*.

3. The original application, concerning the family-group homonyms, wrongly cited the type species of *Trapezia* as *Trapezia ferruginea* Latreille, 1825, a species which was not even included in Latreille's 1825 work. The first valid type designation for *Trapezia* is by H. Milne Edwards (1842), who on plate 14 [for the date of this plate see Cowan, 1976, p. 60] figures *Trapezia dentifrons* Latreille, 1828 (p. 695). The statement in the title of this book: 'accompagnée de planches gravées représentant les types de tous les genres ...' is a type selection. *Trapezia dentifrons* is one of the nominal species included in Latreille's 1828 original description of *Trapezia* (p. 695), and is even the first species

mentioned. *Trapezia dentifrons* is a junior subjective synonym of *Cancer cymodoce* Herbst, 1801 (p. 22).

4. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the generic name *Trapezia* Berthold, 1827 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Generic Names in Zoology the name *Trapezia* Latreille, 1828 (gender: feminine), type species by designation by H. Milne Edwards (1842) *Trapezia dentifrons* Latreille, 1828 (a junior subjective synonym of *Cancer cymodoce* Herbst, 1801);
- (3) to place on the Official List of Specific Names in Zoology the name *cymodoce* Herbst, 1801 as published in the binomen *Cancer cymodoce* (valid specific name at the time of this application of the type species of *Trapezia* Latreille, 1828, as a senior subjective synonym of *Trapezia dentifrons* Latreille, 1828);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Trapezia* Berthold, 1827, as suppressed in (1) above.

References

See BZN 44: 96 for other references relevant to this application.

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Case 2656***Chira* Simon, 1902 (Arachnida, Araneae): proposed conservation**

Maria Elena Galiano

Museo Argentino de Ciencias Naturales 'Bernardino Rivadavia', Av. Angel Gallardo 470, 1405 Buenos Aires, Argentina

Abstract. The purpose of this application is to confirm the spelling of the jumping spider generic name *Chira*, although it is an unjustified emendation. The original spelling *Shira* has been used only once and mentioned only four times since its proposal.

1. The genus *Shira* was proposed (p. 85) by G. W. & E. G. Peckham in 1896, with type species by monotypy *Shira designata* (p. 86). Since its proposal the name has been used only once, by Pickard-Cambridge (1901, p. 298), and mentioned in four 'indexes': Neave (1940, p. 187); Petrunkevitch (1928, p. 246); Roewer (1954, p. 1069); Waterhouse (1902, p. 343).

2. The name *Shira* was first emended by Simon (1902, p. 51), intentionally but with no explanation: '*Chira* = *Shira*' [sic]. Since 1902 the name has been consistently spelt *Chira* in 18 scientific papers and in 6 catalogues, nomenclators and lists (a list is held by the Secretariat). Nine authors have described 17 new species in the genus *Chira*, and six species have been transferred from other genera to form binomina with *Chira*.

3. To conserve current usage I propose that the emendation of the spelling to *Chira* be accepted, and under Article 33b(iii) be made available from Simon (1902). The type species of *Chira* Simon, 1902 will accordingly be, under Article 67h, *Shira designata* Peckham & Peckham, 1896.

4. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the generic name *Shira* Peckham & Peckham, 1896 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Generic Names in Zoology the name *Chira* Simon, 1902 (gender: feminine), type species by indication *Shira designata* Peckham & Peckham, 1896;
- (3) to place on the Official List of Specific Names in Zoology the name *designata* Peckham & Peckham, 1896, as published in the binomen *Shira designata* (specific name of the type species of *Chira* Simon, 1902);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Shira* Peckham & Peckham, 1896 as suppressed in (1) above.

References

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Case 2647

***Heliophanus kochi* Simon, 1868 (Arachnida, Araneae): proposed conservation of the specific name**

Jerzy Prószyński

Zakład Zoologii WSRP, ul. Prusa 12, 08-100 Siedlce, Poland

Abstract. The purpose of this application is to conserve the specific name for one of the jumping spiders, *Heliophanus kochii* Simon, 1868 (family SALTICIDAE), by suppression of the unused senior subjective synonym *albosignatus* L. Koch, 1867. Although he originally published the specific name as *kochii*, Simon subsequently used the spelling *kochi*, and in conformity with usage it is proposed that this spelling be adopted.

1. L. Koch described *Heliophanus albosignatus* in 1867 (p. 871) from the island of Syra (Cyclades). The name was used six times before 1878, including Simon (1868, p. 702), but has since been quoted in only one paper (Bristowe, 1935, p. 776) and four catalogues, the latest and most complete being Bonnet (1957, p. 2129). The syntypes of the species, two females, are kept in the Natural History Museum in Vienna under the collection number 1884.1.45. No new specimens have been described or old ones redescribed using this name.

2. What appears to be the same species was later described under the names *Heliophanus Kochii* Simon (1868, p. 699, pl. III, figs 13 and 13a), from 'Tyrol, France (Midi)'; *H. armatus* Simon (1868, p. 700), from the eastern Pyrenees, Spain; *H. cernuus* Simon (1868, p. 701), from Andalusia; *H. calcarifer* Simon (1868, p. 701) from Corfu; and *Salticus furcatus* Cambridge (1872, p. 346) from Palestine. *H. armatus* and *H. kochi* [sic] were regarded as synonyms in Simon (1937, p. 1250 (a posthumous work edited by L. Berland and L. Fage); see also Bonnet (1957, p. 2142)); *kochi* was selected in preference to *armatus*, and this may be regarded as the act of a 'first reviser' (Article 24 of the Code). As a result of studying type specimens, the names *H. armatus*, *H. cernuus* and *H. calcarifer* were treated as synonyms of *H. kochi* by Wesolowska (1986, p. 217). *Salticus furcatus* was also regarded as a synonym. The synonymised names had not been in general use for a number of years.

3. After an examination of their type specimens, Wesolowska (1986, p. 217) also regarded the names *H. albosignatus* L. Koch, 1867 and *H. kochi* Simon, 1868 as referring to the same species. Following usage, she used the specific name *kochi* but realised that *albosignatus* has one year's priority. She now endorses this application for the suppression of the senior name.

4. The name *kochi* has been used in many publications and a representative list of references is held by the Commission Secretariat. Simon's original material of the species is kept in the Muséum National d'Histoire Naturelle in Paris (unnumbered); no type specimens have ever been designated.

5. Although first described as *kochii* and so used by Simon in 1871 (pp. 350, 351 and 360), this spelling of the name has been almost restricted to papers published in the 19th

century. The spelling *kochi* has been used in at least 44 publications following the original description, including subsequent papers by Simon himself (1876a, p. 156; 1876b, p. cxxxvi; 1878, p. 208; and 1937, p. 1250). It is now used by all leading arachnologists and is generally accepted.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers:
 - (a) to suppress the specific name *albosignatus* L. Koch, 1867, as published in the binomen *Heliophanus albosignatus*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) to rule that the correct spelling of the specific name *kochii* Simon, 1868, as published in the binomen *Heliophanus kochii*, is deemed to be *kochi*;
- (2) to place on the Official List of Specific Names in Zoology the name *kochi* (emendation of *kochii*) Simon, 1868, as published in the binomen *Heliophanus kochii*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *albosignatus* L. Koch, 1867, as published in the binomen *Heliophanus albosignatus*, and as suppressed in (1)(a) above.

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Case 2648

***Attus penicillatus* Simon, 1875 (currently *Sitticus penicillatus*;
Arachnida, Araneae): proposed conservation of the specific name**

Jerzy Prószyński

Zakład Zoologii WSRP, ul. Prusa 12, 08–100 Siedlce, Poland

Abstract. The purpose of this application is the conservation of the name *Sitticus penicillatus* (Simon, 1875) for a member of the family SALTICIDAE (jumping spiders). The specific name is threatened by the senior subjective synonyms *Attus inequalipes* Simon, 1868, *A. illibatus* Simon, 1868, and *A. guttatus* Thorell, 1875, all unused.

1. In 1868 Simon described two species of jumping spiders: *Attus illibatus* (p. 541) from near Kiev, Ukraine, USSR, the holotype being a juvenile female in the Muséum National d'Histoire Naturelle, Paris, phial no. 886; and *A. inequalipes* (p. 614) from 'Botzen' [Bolzano, South Tirol, north Italy], the male holotype (no. BM 1919.9.18.3556) being in the British Museum (Natural History), London. Although both names have been quoted a number of times in catalogues (Reimoser, 1919, p. 104; Charitonov, 1932, p. 182; and Bonnet, 1955, p. 778) in combination with the generic names *Attus* Walckenaer, 1805 and *Attulus* Simon, 1889, no more specimens have been given these names.

2. In October 1875 Simon described a species from 'Basses-Alpes' under the name *Attus penicillatus* (p. xcii), which has been quoted in monographs, keys, faunal records and catalogues at least 44 times, in combination with the generic names *Attus*, *Attulus*, *Sitticulus* F. Dahl, 1926 and *Sitticus* Simon, 1901 (misspelled as *Sittacus* by Peckham in 1909 (p. 518)). A list of representative publications has been given to the Commission Secretariat. The species is now known to occur in the whole Palearctic Region. The type material is kept in the Muséum National d'Histoire Naturelle in Paris (Simon collection, unnumbered). No holotype or lectotype has been designated.

3. After examining the type specimens during a revision of the genus *Sitticus*, I came to the conclusion that the names *illibatus*, *inequalipes* and *penicillatus* represent one species (Prószyński, 1973, p. 72). I used the well known name *penicillatus* (Simon, 1875) for this species, while realising that *illibatus* Simon, 1868 and *inequalipes* Simon, 1868 have priority. Since then, *penicillatus* has been used in eight papers written by seven authors.

4. In May 1875 (p. 119) Thorell described the species *Attus guttatus* based on a male holotype from Jeny-Sala [near the Black Sea coast, USSR], collected by Al. v. Nordmann, which is kept in the Naturhistoriska Riksmuseum in Stockholm (numbered 1685). The name was mentioned in a small number of papers, including that of Reimoser in 1919, until synonymised with *penicillatus* by Simon in 1937 (p. 1258), followed by Bonnet (1955, p. 778). After examining the holotype I agreed with this synonymy (Prószyński, 1973, p. 72). The name *guttatus* has five months priority over

penicillatus but as it has not been used for many years it is desirable to suppress it in favour of *penicillatus*.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the following specific names for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:
 - (a) *illibatus* Simon, 1868, as published in the binomen *Attus illibatus*;
 - (b) *inequalipes* Simon, 1868, as published in the binomen *Attus inequalipes*;
 - (c) *guttatus* Thorell, 1875, as published in the binomen *Attus guttatus*;
- (2) to place on the Official List of Specific Names in Zoology the name *pennicillatus* Simon, 1875, as published in the binomen *Attus penicillatus*;
- (3) to place the following names on the Official Index of Rejected and Invalid Specific Names in Zoology:
 - (a) *illibatus* Simon, 1868, as published in the binomen *Attus illibatus* and as suppressed in (1)(a) above;
 - (b) *inequalipes* Simon, 1868, as published in the binomen *Attus inequalipes* and as suppressed in (1)(b) above;
 - (c) *guttatus* Thorell, 1875, as published in the binomen *Attus guttatus* and as suppressed in (1)(c) above.

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Case 2649

***Thyene* Simon, 1885 (Arachnida, Araneae): proposed conservation**

Jerzy Prószyński

Zakład Zoologii WSRP, ul. Prusa 12, 08-100 Siedlce, Poland

Abstract. The purpose of this application is the conservation of the generic name *Thyene* Simon, 1885 for a large genus of spiders of the family SALTICIDAE (jumping spiders). The name is threatened by the senior subjective synonym *Mithion* Simon, 1884, a genus with a few, poorly known species.

1. Simon described the genus *Thya* in 1876 (p. 51) with the type species *Attus imperialis* Rossi, 1847 (p. 12). As the generic name was preoccupied he changed it to *Thyene* in 1885 (p. 4). According to various authors, the genus *Thyene* now contains 34 nominal species, easily recognisable by both external characters and genital organ structure, distributed from the Mediterranean to southeast Asia with a number of species in Africa. The names have been quoted in many papers, a complete list of papers and species before 1939 being given by Bonnet (1959) and those since 1939 by myself (in preparation). *T. imperialis* is the single representative of the genus in the European part of the Mediterranean.

2. In 1884 (p. 4) Simon described the genus *Mithion*, with the single species *M. semiargenteus* Simon, 1884, from near Khartoum, Sudan. The syntypes, one male and one female, are kept in the Muséum National d'Histoire Naturelle in Paris (Vossion collection) and are numbered 6642 (they were not labelled as types by Simon but by M. E. Galiano in 1959). Subsequently, 10 species were placed in the genus; with later revisions three species have been transferred to other genera and, apart from *semiargenteus*, only six poorly-known species of uncertain taxonomic position remain formally in *Mithion*. These species have not been revised since their original descriptions and the descriptions alone are not sufficient for their affinities to be determined. Consequently, the name *Mithion* has been little used.

3. As a result of my research (Prószyński, 1987, p. 111) I have no doubt that *M. semiargenteus* is congeneric with *Thyene imperialis*; the male palpal organ and female epigyne and its internal features, in particular, show similarities in structure. Consequently, the name *Mithion* becomes a senior subjective synonym of *Thyene*. A change in generic name, however, is undesirable because of the resulting confusion in nomenclature. As stated above, there are many species known under the name *Thyene* mentioned in a large number of papers, and some, e.g. *T. imperialis*, are frequently quoted in non-specialist literature. A representative list of references showing usage of *Thyene* is held by the Commission Secretariat.

4. The six other remaining species of *Mithion* can all be left as 'incertae sedis' pending further study. When they are better known each can be appropriately placed.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the generic name *Mithion* Simon, 1884 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Generic Names in Zoology the name *Thyene* Simon, 1885 (gender: feminine), type species by monotypy *Attus imperialis* Rossi, 1847;
- (3) to place on the Official List of Specific Names in Zoology the name *imperialis* Rossi, 1847, as published in the binomen *Attus imperialis* (specific name of the type species of *Thyene* Rossi, 1847).
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Mithion* Simon, 1884, as suppressed in (1) above.

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Case 2677***Saissetia* Déplanche, 1859 (Insecta, Homoptera): proposed designation of *Lecanium coffeae* Walker, 1852 as the type species**

Yair Ben-Dov

Department of Entomology, Agricultural Research Organisation, The Volcani Center, Bet Dagan 50 250, Israel

Abstract. The purpose of this application is the conservation of the accepted interpretation of *Saissetia* Déplanche, 1859 as a genus of soft scale insects (COCCIDAE), with some species of economic importance. *Lecanium coffeae* Walker, 1852 is commonly taken to be the type species, but the genus was originally based on *Saissetia coffeae* Déplanche, 1859. The description of Déplanche's *coffeae* shows that it was a mealybug (PSEUDOCOCCIDAE), but the species cannot now be identified and the suppression of its name is proposed.

1. Déplanche (1859, pp. 6-7) described the genus *Saissetia* for one new species, *Saissetia coffeae*. The description was given in an article on coffee diseases in Tahiti, which was published in the *Messenger de Tahiti*, a weekly newspaper issued in Papeete, Tahiti. In this article Déplanche presented accounts of: the damage caused by the insects in a coffee plantation in Faava, Tahiti; the distinct difference between the coffee coccid and a different species on guava; the general appearance of an infested coffee tree; descriptions of the female and the male of *S. coffeae* on coffee; description of the female during oviposition; development of the egg and the embryo; and a general discussion on the pest and its control.

2. Because of the unavailability of the *Messenger de Tahiti* in scientific libraries, several parts from the description which are relevant to the present request are cited here: '... Ainsi le coccinien du caféier n'est pas le même que le coccinien du Gouyavier, ... Nous nous bornerons donc pour le moment à la description du coccinien du caféier; nous examinerons son mode de développement, ses ravages, ... Les femelles, se caractérisent par un corps peu épais, aplati, mou, de forme ovulaire; par des antennes composées de neuf articles, et par des tarses n'en ayant qu'un seul. Le corps présente des anneaux bien distincts, terminés de deux en deux par des espèces de languettes qui vont en diminuant de longueur de l'arrière à l'avant. A côté des deux postérieures, inégales et les plus longues, et un peu en dehors, sont deux soies noires, allongées, terminées en pointe. Tout le corps sécrète une matière blanche, cotonneuse qui le recouvre entièrement. ... La bouche, est formée de labre épais et munie de quatre soies assez longues, ... A l'époque de la fécondation, le corps des femelles sécrète la matière cotonneuse en plus grande abondance; ... Parmi de nombreux caractères semblables à ceux que l'on rencontre chez des insectes de la même tribu, nous en voyons d'autres qui en diffèrent trop essentiellement pour ne pas former un genre nouveau de l'espèce qui nous occupe. Nous proposons donc, pour le Coccinien du Caféier, de Genre SAISSETIA; (*S. coffeae*) du nom du Gouverneur actuel des Etablissements Français de l'Océanie.'

3. The description, being remarkably detailed for its time, presents several distinct characters which show that *Saissetia coffeae* Déplanche, 1859 was not a soft scale insect (COCCIDAE), but rather represented a species, which cannot now be identified with confidence, in the mealybug family (PSEUDOCOCCIDAE).

4. Eudes-Deslongchamps (1859, pp. 203–207) published an account of Déplanche's original paper, summarising the description and including the name *Saissetia coffeae*, in the *Bulletin de la Société Linnéenne de Normandie*.

5. Fauvel (1865) published a note (9 lines long) in which he stated that '... l'espèce de Coccinien décrite par M. Emile Déplanche [sic] ... sous le nom de *Saissetia coffeae*, Dépl., n'est autre que le *Leucanium* [sic] *coffeae* ...'. Fauvel, a member of the Société Linnéenne de Normandie, was a general biologist but not a scale insect student. There is no indication in the note that he had examined Déplanche's material, and it is very likely that he introduced this erroneous synonymy because of the identical specific names: *S. coffeae* Déplanche, 1859 and *Lecanium coffeae* Walker, 1852 (p. 1079). This erroneous synonymy, of a mealybug species with that of a soft scale insect, was the origin of the confusion in the genera discussed in this request.

6. The name *Saissetia* was not used in scale insect studies from the date of its description until the end of the 19th century. For example it was not mentioned in the comprehensive works of Targioni Tozzetti (1868) and Signoret (1877). The fact that *Saissetia* was not listed in the Signoret Catalogue (1877) is a clear indication that the Déplanche publication was unknown or not available to Signoret. Eudes-Deslongchamps' (1859) report was perhaps overlooked because it was not published with a clear title but formed part of the report of a meeting.

7. Ancey (1888) proposed *Saissetia* as a replacement name for his genus *Platystoma* (1882; a junior homonym) in the Mollusca. Pilsbry (1894, p. 342) reported a note from T. D. A. Cockerell that *Saissetia* was preoccupied in Entomology, and therefore introduced *Platyrhitida* Pilsbry, 1894 as a replacement name for *Saissetia* Ancey.

8. Cockerell appears to be the first author to have reintroduced the name *Saissetia* into scale insect nomenclature. By including it in a key for genera related to *Lecanium* (Cockerell & Parrott, 1899) he established its interpretation as a genus in the COCCIDAE. Later (Cockerell, 1901) he regarded it as a valid genus, placed eight species in it and compared it with his newly described subgenera *Platysaissetia* and *Megasaissetia*.

9. *Saissetia*, erroneously credited to Fauvel, was noted in the *Zoological Records* (1903) in a footnote on p. 350: '*Saissetia* Fauvel, *Bull. Soc. Normand.* 9 (1865), genus not previously recorded.'

10. Following Cockerell (1899, 1901), 20 species, the majority of which had been previously described or placed in *Lecanium*, were assigned to *Saissetia* in the Fernald Catalogue (1903). The type-species was given as '*coffeae* [Walker, 1852] = *hemisphaericum* [Targioni Tozzetti, 1868]' while the genus was credited to Fauvel (1865). It should be pointed out that *S. coffeae* Déplanche was not mentioned in this Catalogue, not listed among the synonyms of *S. hemisphaerica*, nor among the 'Species without descriptions or not recognisable'.

11. Ashmead (1891) introduced the genus *Bernardia* in the tribe LECANIINI of the COCCIDAE, but failed to assign to it any species. Subsequently, *Lecanium oleae* Bernard (correctly *Coccus oleae* Olivier, 1791, p. 95) was designated the type-species of *Bernardia* (see Marlatt, 1891, p. 150). Cockerell (1892) noted that the latter name was preoccupied in botany, and suggested the replacement name *Neobernardia*. If *Saissetia*

were excluded from the COCCIDAE *Bernardia* (which has never been used) might be resurrected as its junior subjective synonym, but I do not propose this.

12. De Lotto (1965, p. 219) presented, for the first time, clear indications that the original publication by Déplanche (1859) was neither seen by earlier workers, nor by himself, and that *Saissetia coffeae* Déplanche, 1859 must have been a mealybug (PSEUDOCOCCIDAE) and not a soft scale insect (COCCIDAE).

13. Morrison & Morrison's (1966) reference to *Saissetia* basically concurred with the findings of De Lotto (1965), and clearly objected to any attempt to remove the name *Saissetia* from the COCCIDAE.

14. De Lotto (1970) examined the original publication by Déplanche (1859) and confirmed the availability of the names *Saissetia* Déplanche, 1859 and *S. coffeae* Déplanche, 1859. However, as stated in paras. 1-5 above, the original taxonomic position was different from that subsequently assumed.

15. Since 1899 to the present *Saissetia* has been widely accepted and extensively used as a genus in the COCCIDAE, but has never been applied to a mealybug (PSEUDOCOCCIDAE). This fact is well demonstrated in the following list of number of species: Fernald (1903) — world, 20; Dietz & Morrison (1916) — U.S.A. (Indiana), 2; Leonardi (1920) — Italy, 2; Balachowsky (1932) — Mediterranean, 2; Gomez-Menor (1937) — Spain, 3; Zimmerman (1948) — Hawaii, 3; Borchsenius (1957) — U.S.S.R., 3; De Lotto (1965) — Southern Africa, 12; Beardsley (1966) — Micronesia, 3; Hodgson (1969) — Zimbabwe, 12; Williams & Kosztarab (1972) — U.S.A. (Virginia), 3; Kawai (1980) — Japan, 3; Yang (1982) — China, 6; Ben-Dov (1971, 1985) — Israel, 4; Kozar & Walter (1985) — Palaearctic region, 6.

16. Based on the Fernald Catalogue (1903) and on the *Zoological Records*, I estimate that by 1986 some 50 species of soft scale insects had been described in or assigned to *Saissetia*.

17. Some species of *Saissetia* are pests of great economic importance, e.g. the Mediterranean black scale, *S. oleae* (Olivier) and the hemispherical scale, *S. coffeae* (Walker). These names have been, and are, used in all works dealing with the biology and control of the species (see Clausen, 1978).

18. As discussed above, the generic name *Saissetia* is widely used in publications on both systematics and applied studies of scale insects. It is always ascribed to Déplanche (1859), but placed in the COCCIDAE, with *Lecanium coffeae* Walker wrongly taken to be its nominal type species. I consider that stability would best be served by ratifying current practice, particularly since Déplanche's species *coffeae*, although plainly different from Walker's, cannot now be identified. Because the species evidently belong to different families I do not propose designating a specimen of *coffeae* Walker as neotype of *coffeae* Déplanche.

19. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers:

- (a) to suppress the specific name *coffeae* Déplanche, 1859, as published in the binomen *Saissetia coffeae*, for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (b) to set aside all previous designations of type species for the nominal genus *Saissetia* Déplanche, 1859, and to designate *Lecanium coffeae* Walker, 1852 as the type species;

- (2) to place on the Official List of Generic Names in Zoology the name *Saissetia* Déplanche, 1859 (gender: feminine), type species by designation in (1)(b) above *Lecanium coffeae* Walker, 1852;
- (3) to place on the Official List of Specific Names in Zoology the name *coffeae* Walker, 1852, as published in the binomen *Lecanium coffeae* (specific name of the type species of *Saissetia* Déplanche, 1859);
- (4) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *coffeae* Déplanche, 1859, as published in the binomen *Saissetia coffeae* and as suppressed in (1)(a) above.

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Case 2695

***Fonscolombia* Lichtenstein, 1877 (Insecta, Homoptera): proposed designation of *Fonscolombia graminis* Lichtenstein, 1877 as the type species**

Yair Ben-Dov

Department of Entomology, Agricultural Research Organization, Bet Dagan 50-250, Israel

Danièle Matile-Ferrero

Entomologie, Muséum National d'Histoire Naturelle, 75005 Paris, France

Abstract. This application is submitted in order to designate *Fonscolombia graminis* Lichtenstein, 1877 as the type species of *Fonscolombia* Lichtenstein, 1877, in accordance with the type material, as a genus in the mealybug family PSEUDOCOCCIDAE. The original designation of *Coccus radicumgraminis* Fonscolombe, 1834 was based on a misidentification by Lichtenstein of *C. radicumgraminis*, which is a species in the soft scale family COCCIDAE.

1. Fonscolombe (1834, p. 212) described the scale insect *Coccus radicumgraminis* (originally spelled *radicum-graminis* but emended under Article 31d of the Code) from roots of the grass *Festuca caespitosa* in southern France. It was assigned to the 'Gallinsecte' of that period, which corresponds to the superfamily COCCOIDEA of current usage. No type-material of Fonscolombe's species is available in the Muséum National d'Histoire Naturelle, Paris, and to the best of our knowledge it is lost. However, part of the original description of the adult female of this species — 'rebordé de tous les côtés' [indicating a well defined margin], and 'le postérieur est surmonté d'une pointe conique charnue brunâtre' [probably referring to the anal plates] — strongly suggests that it is a soft scale species, probably of the genus *Lecanopsis* Targioni Tozzetti, 1868 (family COCCIDAE), as suggested by earlier authors (Signoret, 1874; Cockerell, 1899; Borchsenius, 1957). The specific name *radicumgraminis* has not been used for any recognized species.

2. Lichtenstein (1877a; 1877b) erected the genus *Fonscolombia*. It is explicit in both papers that when Lichtenstein established the genus he believed that he was dealing with the nominal species *Coccus radicumgraminis* Fonscolombe, 1834, which is therefore under Article 70a of the Code the type species. However, Lichtenstein shortened the 'rather long' specific name to *graminis*, and deliberately applied the binomen *Fonscolombia graminis* to the species which he was actually studying. Lichtenstein did not indicate the suprageneric or family placement of his genus.

3. Cockerell (1899, p. 264) treated *Fonscolombia* as a senior synonym of *Pseudochermes* Nitsche, 1895, thus indicating his interpretation that the genus belonged to the family ERIOCOCCIDAE. This placement was followed in the Fernald Catalogue (1903, p. 114) and by Green (1922, p. 345).

4. Lindinger (1908, p. 94), introduced *Fonscolombea*, an unjustified emendation, to replace *Fonscolombia*.

5. Lindinger (1935, p. 135) accepted *C. radicumgraminis* Fonscolombe as a species in *Lecanopsis*, thus indicating his interpretation that Fonscolombe's species was a soft scale insect (COCCIDAE); on p. 145 he suggested that *F. graminis* Lichtenstein was a mealybug (PSEUDOCOCCIDAE), which he considered to be a junior synonym of *Ripersia corynephor* Signoret, 1875. Lindinger repeated this interpretation in 1937 (p. 185). However, Lindinger's interpretation was not based on a study of specimens, but rather on a comparison between extremely poor descriptions of both species; the taxonomic characters of *R. corynephor* are still obscure.

6. Lindinger (1943, p. 250–251) synonymized *Ripersia* Signoret, 1874 and *Fonscolombia* Lichtenstein with *Tychea* Koch, 1857, in accordance with his interpretation of *Fonscolombia* as a mealybug genus (PSEUDOCOCCIDAE). However, *Tychea* is a homopterian genus of unsettled identity which is not in use in the COCCOIDEA (Morrison & Morrison, 1966) nor in the APHIDOIDEA (Eastop & Hille Ris Lambers, 1976).

7. Apart from *F. graminis* four species have been placed in *Fonscolombia*. However, all of them are now placed in genera of the family ERIOCOCCIDAE, as listed below with their present generic placement in parentheses: *F. braggi* Cockerell & Robinson, 1915 (*Ovaticoccus*); *F. fraxini* Kaltenbach, 1860 (*Pseudohermes*); *F. peninsularis* Ferris, 1921 (*Ovaticoccus*); *F. yuccae* Ferris, 1919 (*Ovaticoccus*) (see Hoy, 1963). Since 1921 the name has not been used in the COCCOIDEA.

8. The contradictory concepts of *Fonscolombia*, as discussed in paras. 3–7 above, represent subjective interpretations of Lichtenstein's (1877a) description. No original material of the species studied by Lichtenstein was available to any of these workers.

9. Ferris (1957, p. 86) and Morrison & Morrison (1966, p. 80) considered the nomenclatural status of *Fonscolombia*, and concluded that this generic name is available when it can be clearly associated with some coccoid taxon.

10. We (Ben-Dov & Matile-Ferrero, 1989) have examined the original material of the species studied by Lichtenstein (1877a); we showed that *Fonscolombia graminis* Lichtenstein is the valid name for this species, designated a lectotype (deposited in the Muséum National d'Histoire Naturelle, Paris), redescribed the species, redefined *Fonscolombia* and showed that it belongs to the family PSEUDOCOCCIDAE.

11. As discussed above, the correct family placement of the genus *Fonscolombia* was disputed among students of scale insects, because the original material of the species for which the genus was erected by Lichtenstein (1877a) was not available. We (1989) have shown also that the nominal type species of *Fonscolombia* (*C. radicumgraminis* Fonscolombe, which was evidently a soft scale insect, COCCIDAE) was a misidentification of a mealybug by Lichtenstein (1877a). We consider that stability would be best served by designating *Fonscolombia graminis* Lichtenstein, 1877 (as redescribed by Ben-Dov & Matile-Ferrero, 1989) as the type-species of *Fonscolombia*, in accordance with Lichtenstein's original work.

12. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all previous designations of type species for the nominal genus *Fonscolombia* Lichtenstein, 1877, and to designate *Fonscolombia graminis* Lichtenstein, 1877 as the type species;

- (2) to place on the Official List of Generic Names in Zoology the name *Fonscolombia* Lichtenstein, 1877 (gender: feminine), type species by designation in (1) above *Fonscolombia graminis* Lichtenstein, 1877;
- (3) to place on the Official List of Specific Names in Zoology the name *graminis* Lichtenstein, 1877, as published in the binomen *Fonscolombia graminis* and as defined by the lectotype designated by Ben-Dov & Matile-Ferrero (1989) (specific name of the type species of *Fonscolombia* Lichtenstein, 1877).

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Case 2665

Rosema Walker, 1855 (Insecta, Lepidoptera): proposed conservation

Paul Thiaucourt

Muséum National d'Histoire Naturelle, 45 rue de Buffon, 75005 Paris, France

Abstract. The purpose of this application is to conserve the notodontid moth generic name *Rosema* Walker, 1855 by giving it precedence over two unused senior subjective synonyms, *Zelica* and *Rhogalia*, both published by Hübner [1825].

1. Walker (1855, pp. 1159 and 1168) proposed the generic name *Rosema* for five species of South American moths in the DREPANIDAE. Möschler (1878, p. 696) transferred *Rosema* to the family NOTODONTIDAE, where it is placed today. Kirby (1892, p. 581) designated *R. dorsalis* Walker, 1855 (p. 1168) from Brazil as the type species of *Rosema*. The holotype of *R. dorsalis* is in the British Museum (Natural History), London.

2. The generic name *Rosema* has often been used, most notably in two standard reference works: Draudt (1934) in Seitz's *Die Gross-Schmetterlinge der Erde* (vol. 6, pp. 1054–1059) and by Gaede (1934) in Aurivillius' *Lepidopterorum Catalogus* (part 59, pp. 313–315). A list of 29 other references has been given to the Commission Secretariat.

3. Hübner ([1825], p. 396) proposed two generic names, *Zelica* and *Rhogalia*. Each included only one nominal species, which are therefore the types by monotypy. For *Zelica* this was *Phalaena zelica* Stoll, [1790] (p. 73, pl. 16, figs. 2, 2C and 2D), which Hübner misspelt as *P. zelia*, and for *Rhogalia* it was *P. epigena* Stoll, [1790] (p. 72, pl. 16, figs 1, 1A and 1B), misspelt as *P. epigenana*.

4. The name *Zelica* has been used only twice, by Herrich-Schäffer (1855, pp. 67 and 83, fig. 467) for his new species *Z. thalassina*, and by Boisduval (1870, p. 99) who provided the unnecessary replacement name *Z. prasina* for *Z. thalassina*. *Rhogalia* has never been used.

5. Draudt (1934, p. 1055) treated *Rosema zelica* (Stoll) as an apparently rare form of *R. dorsalis* Walker. Gaede (in Aurivillius, 1934, pp. 313–315) is unclear; *dorsalis* is given as a good species, but under *zelica* he treats *dorsalis* as a junior synonym, with exactly the same references. Forbes (1939, pp. 246–247) gives *dorsalis* as a variety of the species *R. zelica*, stating 'the type [in the meaning of the word type = nominotypical form] seems very rare but is in the National Museum, Washington from French Guiana'. Biezanko (1962, Serie A, p. 11) cited *R. zelica* Stoll and (1962, Serie B, p. 6) *R. zelica f. dorsalis* Walker, and other workers have treated *dorsalis* as a form of *zelica*.

6. I have examined many specimens recently caught in French Guiana, and also in collections in London, Berlin, Chicago, Maracay, Saarbrücken, München and Frankfurt, without seeing a 'typical' *R. zelica*. Unfortunately, Stoll's original specimens, which were in Leyden, are probably lost. I have examined the genitalia of the holotype of *R. dorsalis* (British Museum (Natural History) slide preparation no. NOTODONTIDAE 720) and of Forbes' (1939) specimen, kindly sent by Dr E. L. Todd from

the U.S. National Museum and, in my opinion, they belong to two distinct but closely related species. It seems that *R. dorsalis* is widespread but that *R. zelica* is very scarce or even extinct.

7. I consider that *Phalaena epigena* Stoll, [1790], the type species of *Rhogalia* Hübner (see paragraph 3), is congeneric with *Rosema dorsalis* and *R. zelica*.

8. I propose the conservation of the name *Rosema* Walker, which has been in use for over a century, while its senior subjective synonym *Rhogalia* has never been used, and *Zelica* has been used only twice, both times over a hundred years ago.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the generic name *Rosema* Walker, 1855 is to be given precedence over *Zelica* Hübner, [1825] and *Rhogalia* Hübner, [1825] whenever it is considered to be a synonym of either of the latter names;
- (2) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Rosema* Walker, 1855 (gender: feminine), type species by subsequent designation by Kirby (1892) *Rosema dorsalis* Walker, 1855, with the endorsement that it is to be given precedence over *Zelica* Hübner, [1825] and *Rhogalia* Hübner, [1825] whenever it is considered to be a synonym of either of the latter names;
 - (b) *Zelica* Hübner, [1825] (gender: feminine), type species by monotypy *Phalaena zelica* Stoll, [1790], with the endorsement that it is not to be given priority over *Rosema* Walker, 1855 whenever the two names are considered to be synonyms;
 - (c) *Rhogalia* Hübner, [1825] (gender: feminine), type species by monotypy *Phalaena epigena* Stoll, [1790], with the endorsement that it is not to be given priority over *Rosema* Walker, 1855 whenever the two names are considered to be synonyms;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *dorsalis* Walker, 1855, as published in the binomen *Rosema dorsalis* (specific name of the type species of *Rosema* Walker, 1855);
 - (b) *zelica* Stoll, [1790], as published in the binomen *Phalaena zelica* (specific name of the type species of *Zelica* Hübner, [1825]);
 - (c) *epigena* Stoll, [1790], as published in the binomen *Phalaena epigena* (specific name of the type species of *Rhogalia* Hübner, [1825]).

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Case 2658

***Protocalliphora* Hough, 1899 (Insecta, Diptera) and its type species *Musca azurea* Fallén, 1817: proposed conservation of usage by designation of a replacement lectotype**

Curtis W. Sabrosky

Systematic Entomology Laboratory, Agricultural Research Service, USDA, Washington, D.C. 120560, U.S.A.

Abstract. The purpose of this application is to conserve the customary use of the generic name *Protocalliphora* Hough, 1899 and its type species *Musca azurea* Fallén, 1817 for the bird blow flies, the larvae of which are obligatory bloodsucking parasites of nestling birds, and to avoid the confusing transfer of the names to a scavenger calliphorid long known as *Protophormia terraenovae* (Robineau-Desvoidy, 1830). The name *Protocalliphora* is well known in both entomology and ornithology.

1. The genus *Protocalliphora* Hough, 1899 (p. 65) was proposed in North America for two species then regarded as Holarctic, *Musca azurea* Fallén, 1817 and *Musca chrysorrhoea* Meigen, 1826, of which the former was designated (p. 66) as type species. *Protocalliphora azurea* is now considered a Palearctic species, but Hough's writings show that he had both Nearctic and Palearctic specimens, so it cannot be said that his 'azurea' was only Nearctic and consequently a misidentified type species.

2. *Musca azurea* Fallén, 1817 (p. 245) was named and briefly described from '♂♀' sent to him from Westergöthland [modern Västergötland], Sweden. The number of specimens was not stated but obviously there were at least two. In 1821 (p. 46), Fallén repeated the description and added a few details, including the phrase 'squama nigricans'.

3. In 1826, Meigen stated clearly that Fallén's *Musca azurea* consisted of two species, and that only the male is *azurea*, with white calypteres. Meigen was thus the first reviser of this species. Assuredly he saw original material; he visited Fallén in Lund, Sweden (see biography of Meigen by Förster, 1846, p. 137), and at least twice recorded his debt to Fallén (Meigen, 1818, p. xix; 1824, p. vi).

4. Meigen's revision was supported by Zetterstedt (1838, p. 657) in his *Insecta Lapponica*. He recognised *Musca azurea* Fallén in the same sense as Meigen's interpretation, and described the other species, with brown calypteres, as *Musca groenlandica* (n. sp., p. 657), now a synonym of *Protophormia terraenovae* (Robineau-Desvoidy, 1830). Under *M. azurea*, Zetterstedt specifically mentioned Fallén's original material, 'which that author had before his eyes when he was about to describe his species'. Van Emden (1954, p. 121) accepted Zetterstedt as first reviser, but Sabrosky (1956, p. 175) called attention to the prior revision by Meigen (1826). The result is the same: Meigen and Zetterstedt agree, and it matters not whether their conclusions were independently arrived at, or one adopted the other's conclusions, or the effort was joint.

5. At the time of Meigen and Zetterstedt, the Fallén and Zetterstedt collections were at Lund, but the two collections were later sorted out by Zetterstedt and the Fallén

collection sent to the Riksmuseum in Stockholm. In 1953 I found two males and one female labelled 'M. azurea' in the Fallén collection at Stockholm, and four males and one female under *azurea* in Zetterstedt's collection at Lund. Of the Lund material, three males and the female bear labels that identify their provenance, and the time of collection as subsequent to 1817, leaving one old specimen without a label and thus of unknown provenance and time. The Stockholm specimens are a brown-calypter species (*Protophormia*), those in Lund a white—or chiefly white—calypter species (*Protocalliphora*). This separation agrees with the revisions by Meigen (1826) and Zetterstedt (1838), and as Zetterstedt had sorted out the mixed material.

6. Scattered references in the literature mention a 'type' for *azurea*: Villeneuve (1918, p. 159; le type même de Fallén); Stein (1924, p. 261: Die Type in Lund); Townsend (1931, p. 375: holotype in Stockholm); Ringdahl (1945, p. 35: type specimen in the Riksmuseum in Stockholm). However, none of these authors labelled a specimen as lectotype (or equivalent term), and they do not qualify as precise designations of lectotype.

7. Hennig (1939) dissected and figured (p. 362, figs. 1–2) the genitalia of a male of 'azurea' loaned from the Stockholm Museum, and he referred to this specimen as 'der Typus'. He recognised that it was not a *Protocalliphora* as customarily identified but belonged to the saprophagous species *Protophormia terraenovae* (Robineau-Desvoidy). The specimen that he dissected and published as 'der Typus' bears a printed label 'hiervon micr. Präp/Kopulat.-Apparat . . .' plus a small pink label with a number that means a specimen loaned by the Stockholm Museum, so that specimen and the 'der Typus' publication are clearly and definitely associated. No doubt Hennig assumed that the specimen loaned to him was 'der Typus' and not merely 'ein Typus' or syntype.

8. In 1956 I discussed the nomenclature of *Protocalliphora*, noted that Meigen was actually the first reviser, and opined that (p. 178) 'action of a first reviser takes precedence over later actions, even if one of the latter involves selection of a lectotype or neotype'. Accordingly I designated as lectotype, consistent with Meigen's revision, the old unlabelled male in Lund, which 'might have been, or at least cannot be demonstrated not to have been, one of Fallén's original specimens.' This conclusion has been accepted by recent workers in the family, thus continuing traditional usage of *Protocalliphora* for the bird blow flies. A recent description of additional species of *Protocalliphora* has called into question the specific identity of this specimen. Knut Rognes, now completing a book on the CALLIPHORIDAE for the *Fauna Entomologica Scandinavica* (in press), has dissected this male specimen and determined that it is *azurea* in the traditional sense.

9. Unfortunately — in my opinion, and this is a good example of what can occur — action by the XVI International Congress of Zoology (Monaco, 1972) gave lectotype designation absolute precedence over restriction by a first reviser, and this action became part of the Code in 1985 (Article 74aii). The effect of this is that Hennig's action (1939), which is acceptable under Article 74a as a legitimate lectotype designation, is the valid designation for *Musca azurea* Fallén because it antedates the action of Sabrosky (1956).

10. Unfortunately, the Hennigian 'lectotype' of *Musca azurea* is, as Hennig recognised, a specimen of the scavenger species known as *Protophormia terraenovae* (the type species of *Protophormia*). Hough's designation of *Musca azurea* as type species of *Protocalliphora*, although consistent with the revisions of Meigen and Zetterstedt and followed in most subsequent literature, was made a misidentified type species by the decades-later 'designation' by Hennig.

11. Recognition of Hennig's dissected specimen as lectotype would require the following changes:

- i. *Protocalliphora* Hough, 1899, would replace *Protophormia* Townsend, 1908 (p. 123) for the scavenger genus;
- ii. *Protocalliphora azurea* (Fallén, 1817) would replace *Protophormia terraenovae* (Robineau-Desvoidy, 1830, p. 467) for the scavenger species;
- iii. the bird blow fly genus would change from *Protocalliphora* to *Avihospita* Hendel, 1901; and
- iv. *Protocalliphora azurea* auct. would change to *Avihospita caerulea* (Robineau-Desvoidy, 1830) [*Phormia*], or perhaps, because of uncertainty about the identity of *caerulea*, to *A. dispar* (Dufour, 1845) [*Lucilia*].

12. These upsetting changes would disturb stability in both generic and specific names in these two common and widespread Holarctic genera of blow flies (CALLIPHORIDAE). More important, and most unfortunately, they would change the established and well recognised usage of *Protocalliphora* from bird blow flies and their bloodsucking larvae to a scavenger genus, *Protophormia*. Both generic names are well established in the literature of entomology, and *Protocalliphora* in the literature of ornithology (see appended list of usage, para. 13). Straight synonymy is often only briefly upsetting, but such a reversal of established usage is not only upsetting to stability but it introduces confusion into the literature and is therefore especially harmful. Both generic and specific nomenclature would be stabilised by tackling the lectotype problem.

13. The extensive usage of *Protocalliphora* for the bird blow flies could be abundantly illustrated by citation from the periodical literature of entomology and ornithology, but it is exemplified here by the following major works, mostly books, briefly identified for present purposes without inclusion in the References. An asterisk (*) marks those that use the name *azurea* in addition to *Protocalliphora*:

Catalogues: Aldrich (1905), and *Stone et al. (1965) on Diptera of North America; *Becker & Stein (1907), and *Schumann (1986) on Calliphoridae in Palearctic Diptera.

Curran (1934): The families and genera of North American Diptera.

*Van Emden (1954): Calliphoridae, in Handbooks for the Identification of British Insects.

*Fan (1965): [key to the common synanthropic flies of China].

*Gregor & Povolny (1959): The tribe Phormiini in Europe.

*Grunin (1970): Calliphoridae, in Bey-Bienko [Identification of the insects of the European part of the USSR].

*Hall (1948): The blowflies of North America.

*Hough (1899): Synopsis of the Calliphorinae of the United States.

14 additional references are held by the Commission Secretariat (10 marked *) but are not included here for economy of space.

14. This application has been read by and is supported by the following specialists interested in CALLIPHORIDAE: Thomas Pape (Copenhagen, Denmark); G. F. Shewell (Ottawa, Canada); Adrian Pont (London, England); Knut Rognes (Stavanger, Norway); B. V. Peterson (Washington, D.C.); and Norman Woodley (Washington, D.C.).

15. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress all designations of lectotype for *Musca azurea* Fallén, 1817 prior to that by Sabrosky (1956) of the specimen described in para. 8 above;
- (2) to place the following names on the Official List of Generic Names in Zoology:
 - (a) *Protocalliphora* Hough, 1899 (gender: feminine), type species *Musca azurea* Fallén, 1817 by original designation;
 - (b) *Protophormia* Townsend, 1908 (gender: feminine), type species by monotypy *Phormia terraenovae* Robineau-Desvoidy, 1830;
- (3) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *azurea* Fallén, 1817, as published in the binomen *Musca azurea* (specific name of the type species of *Protocalliphora* Hough, 1899) and as defined by the lectotype designated by Sabrosky (1956);
 - (b) *terraenovae* Robineau-Desvoidy, 1830, as published in the binomen *Phormia terraenovae* (specific name of the type species of *Protophormia* Townsend, 1908).

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Case 2659

***Osteoglossum* Cuvier, 1829 (Osteichthyes, Osteoglossiformes): proposed fixation of *O. bicirrhosum* Cuvier, 1829 as the name of the type species**

Maurice Kottelat

Zoologische Staatssammlung, Münchhausenstr. 21, D-8000 München 60,
Fed. Rep. Germany

Abstract. The purpose of this application is to conserve the specific name *bicirrhosum* Cuvier, 1829 for the Brazilian food fish known as the Aruana (Arawana or Arowana). Cuvier published the combination *Osteoglossum vandellii*, but synonymised this with the unpublished name *Ischnosoma bicirrhosum*. The name *bicirrhosum* is available by reason of subsequent adoption, whereas *vandellii* has been unused for 160 years.

1. Cuvier (1829, p. 328) described the new genus *Osteoglossum*. He ended his description with the statement 'On en connaît une espèce assez grande du Brésil (*Osteoglossum Vandellii*, n., ou *Ischnosoma bicirrhosum*, Spix, xxv)'. This means Cuvier named the only known (and hence type) species as *O. vandellii*, and considered that the *I. bicirrhosum* on Spix's then unpublished plate 25 was the same species. This makes both specific names available from Cuvier (1829) (*bicirrhosum* is available under Article 11e of the Code because it has been subsequently adopted as valid). [Dates of publication and authorship of names and acts in 'Spix', i.e. Spix & Agassiz (1829–1831), follow the conclusions of Kottelat (1988); in this paper the date of publication of Cuvier is taken as not later than 31 March 1829, the relevant Spix plate as between 22 May 1829 and 4 July 1829; alternative conclusions on authorship and dates might be historically correct but are difficult to support with internal evidence].

2. In 1831 Agassiz (p. 2 of the 'Conspectus' of Spix & Agassiz) acted as first reviser and retained *Osteoglossum vandellii*. The combination *Osteoglossum vandellii* Cuvier, 1829 has not been used again for this fish. As it is an important food fish (see Goulding, 1980, pp. 36, 211 and 1981, p. 113), the conservation of *bicirrhosum* is justified.

3. *Ischnosoma* has been used only once, on plate 25 of Spix & Agassiz (1829; in combination with *bicirrhosum*), and dates from that publication. All other uses of this name are in synonymies and bibliographies, so no action needs to be taken regarding it.

4. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers:

(a) to set aside all first reviser actions regarding the specific names *vandellii* Cuvier, 1829, as published in the binomen *Osteoglossum vandellii*, and *bicirrhosum* Cuvier, 1829, as published in combination with the manuscript generic name *Ischnosoma*, and to rule that *bicirrhosum* Cuvier, 1829 is a senior objective synonym of *vandellii* Cuvier, 1829;

(b) to confirm *Osteoglossum bicirrhosum* Cuvier, 1829 as the type species by monotypy of *Osteoglossum* Cuvier, 1829;

- (2) to place on the Official List of Generic Names in Zoology the name *Osteoglossum* Cuvier, 1829 (gender: neuter), type species by monotypy *Osteoglossum bicirrhosum* Cuvier, 1829;
- (3) to place on the Official List of Specific Names in Zoology the name *bicirrhosum* Cuvier, 1829, as published in combination with the manuscript generic name *Ischnosoma* (specific name of the type species of *Osteoglossum* Cuvier, 1829);
- (4) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *vandellii* Cuvier, 1829, as published in the binomen *Osteoglossum vandellii*, and as ruled in (1) above to be a junior objective synonym of *bicirrhosum* Cuvier, 1829 as published in the combination *Ischnosoma bicirrhosum*.

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Comment opposing the proposed conservation of *Physcus* Howard, 1895 (Insecta, Hymenoptera) by the suppression of *Coccobius* Ratzeburg, 1852
(Case 2629; see BZN 45: 288–291)

John LaSalle & Zdenek Bouček

CAB International Institute of Entomology, 56 Queen's Gate, London, SW7 5JR, U.K.

1. We are strongly opposed to the proposed suppression of the chalcidoid generic name *Coccobius* Ratzeburg, 1852, in favour of *Physcus* Howard, 1895, as requested by Rosen, Rivnay & Viggiani. The proposed conservation of *Physcus* cannot be justified on a nomenclatural or systematic basis, and would do more to disrupt stability than to promote it.

2. According to Rosen et al. there are three main objections to the use of *Coccobius*: (1) the type species of *Coccobius*, *C. annulicornis* Ratzeburg, 1852, is currently unrecognisable, and as such *Coccobius* cannot be accepted as synonymous with *Physcus*; (2) even if *Coccobius* and *Physcus* can be shown to be synonymous, use of the name *Coccobius* rather than *Physcus* would disrupt stability; (3) the name *Physcus* is well known in the literature of biological control and economic entomology. We disagree with the authors concerning their first two points, and as to their third point, we feel that overall stability would be more disrupted by conserving the name *Physcus* (which instead can remain as an available name, but a junior synonym of *Coccobius*).

3. For their first point, Rosen et al. consider the recognition of the genus *Coccobius* as doubtful, as type material for the type species *C. annulicornis* was destroyed in the Second World War. However, as in many cases where original type material is no longer extant, a reasonable assumption can be made as to the identity of this species. As early as 1895 Howard (p. 10) suggested that *C. annulicornis* might belong to his new genus *Physcus*. From Ratzeburg's original description (1852, p. 195) the identity of *annulicornis*, with distinctive black and white antennae, yellow-brown thorax, and brown abdomen, is clear: only one European aphelinid fits this description.

4. Novitzky had examined the *annulicornis* type (Graham, 1976, p. 144; Hayat, 1983, p. 79; see also BZN 45: 289, paras 8 and 9), and there is presently a specimen in the British Museum (Natural History) from Novitzky's collection, which he determined as *C. annulicornis* through comparison with Ratzeburg's type (Novitzky, personal communication to Z. Bouček). Hayat (1983, p. 79) mentions this specimen as being '... on a card with the antennae missing and the head partially eaten by psocids.' In reference to this specimen, which they apparently have not examined, Rosen et al. claim (their para. 10) that '... to the best of our knowledge an aphelinid specimen mounted on a card, without antennae and with part of the head eaten, cannot be identified to genus — let alone to species — with any degree of certainty'. This argument is in seeming contradiction to a previous statement in their proposal (para. 3, which is a quote from Hayat, 1984) that the genus *Physcus* 'is rather distinctive and is not likely to be confused with any other aphelinid genus'.

5. We have examined Novitzky's *annulicornis* specimen and it is clearly congeneric with *Physcus* (and identical to *Physcus testaceus* Masi, 1910 (pp. 36–37), syn.n.). Fortunately, one of the antennae of this specimen is present; it had been removed from the head, and glued separately on the card. The distinctive form of both the antenna and thorax in this specimen are in complete agreement with the generic concept of *Physcus*.

It is highly unlikely that Novitzky could have confused this easily recognisable species, and we have no doubt that his specimen represents the species described by Ratzeburg.

6. In order to avoid any further confusion or argument concerning the recognition of the genus *Coccobius*, we now designate this *annulicornis* specimen from Novitzky's collection as neotype of the species *Coccobius annulicornis* Ratzeburg, 1852. Although this specimen is slightly damaged, it is easily recognisable, and it is the only specimen that we are aware of, or that has been referred to in the literature, that has been compared with the original type material. Data for this specimen in the British Museum (Natural History) are as follows: [Hungary], 'Vác, Tudósdomb, Biró, 1930.v.31', 'Csöröghegy retis ope'. It also bears the label 'Det. S. Novickij, ♀ *Coccobius annulicornis* Ratz'. There can be no further confusion regarding the identity of the genus *Coccobius*.

7. As to the second point of Rosen et al., we contend that suppression of the name *Coccobius* would disrupt stability rather than promote it. Hayat's (1983) work in which he re-established the name *Coccobius* is the first modern generic treatment of the APHELINIDAE, and as such will be the foundation of further research for years to come. In this work Hayat (p. 81) addressed the matter of whether to use *Coccobius* or *Physcus* and concluded '... I think that we should not reject a name just because some authors ignored, or misunderstood, or have preferred to use a later name without investigating the availability of an earlier published synonym. In this case, the possibility of *annulicornis* being a *Physcus* was suggested as early as 1895 by Howard, the author of *Physcus*'.

8. Rosen et al. never make it clear from a systematic point of view for what reason they feel the use of the name *Coccobius* would disrupt stability, but it clearly does not fall into the category of an unused senior synonym as outlined by Article 79c of the Code. The identity of *Coccobius* has been established, and the name has been used in systematic and biological control literature (Hayat, 1984, 1985, 1986; Waterhouse & Norris, 1987; Woolley, 1988).

9. The final argument Rosen et al. make is that the generic name *Physcus* is well known in the literature of biological control and economic entomology. We are not convinced as to the validity of this argument. Nobody, including systematists, likes to learn new names for taxa they have known under another name. However, knowledgeable biological control workers and economic entomologists will appreciate that advances which provide systematic stability in important groups of poorly understood insects (such as the APHELINIDAE) are of far greater long term benefit to them than the maintenance of previously used names for sentimental reasons.

10. As the name *Coccobius* is shown to have both its usage and its identity established, and as Rosen et al. have not provided sufficient evidence to support their proposal to suppress the generic name *Coccobius* in favour of *Physcus*, we request the ICZN to reject their appeal. We rather request the Commission:

- (1) to place on the Official List of Generic Names in Zoology the name *Coccobius* Ratzeburg, 1852, (gender: masculine), type species *Coccobius annulicornis* Ratzeburg, 1852 by designation by Gahan & Fagan (1923, p. 37);
- (2) to place on the Official List of Specific Names in Zoology the name *annulicornis* Ratzeburg, 1852, as published in the binomen *Coccobius annulicornis* and as defined by the neotype designated in para. 6 above (specific name of the type species of *Coccobius* Ratzeburg, 1852).

References

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- Hayat, M. 1983. The genera of Aphelinidae (Hymenoptera) of the world. *Systematic Entomology*, **8**: 63–102.
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Comment on the proposed conservation of ICHTHYOPHYIIDAE Taylor, 1968 (Amphibia, Gymnophiona)

(Case 2616; see BZN **45**: 207–209)

Hobart M. Smith

Department of Environmental, Population and Organismic Biology, University of Colorado, Boulder, Colorado 80309–0334, U.S.A.

Although the family name ICHTHYOPHYIIDAE Taylor, 1968 is only 21 years old the circumstances warrant its conservation.

The taxonomy of the Gymnophiona (caecilians), on a world-wide basis, remained until 1968 essentially neglected and in a very elementary state, with but one family recognised. Taylor's monograph of 1968 was the turning point in study of this group, with recognition of three families, including the ICHTHYOPHYIIDAE; now five families are accepted. The monograph is the baseline for all modern work on the order, and it has stimulated an enormous literature in the succeeding span of little more than 20 years. It is essentially the *Systema Naturae* of gymnophione taxonomy and biology. That it supplant pre-1968 work is not suggested, but due recognition should be given to it as the starting point for modern work, particularly in view of the magnitude of subsequent literature. In the interests of nomenclatural stability it is important that the application for conservation of the family name ICHTHYOPHYIIDAE Taylor, 1968 be approved.

OPINION 1536

Sorites Ehrenberg, [1839] (Foraminiferida): *Nautilus orbiculus* Forsskål, 1775 designated as the type species

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Sorites* Ehrenberg, [1839] are hereby set aside and *Nautilus orbiculus* Forsskål, 1775 is designated as type species.

(2) The name *Sorites* Ehrenberg, [1839] (gender: masculine), type species by designation under the plenary powers in (1) above, *Nautilus orbiculus* Forsskål, 1775, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *orbiculus* Forsskål, 1775, as published in the binomen *Nautilus orbiculus* (specific name of the type species of *Sorites* Ehrenberg, [1839]) is hereby placed on the Official List of Specific Names in Zoology.

(4) The name *SORITIDAE* Ehrenberg, [1839] (type genus *Sorites* Ehrenberg, [1839]) is hereby placed on the Official List of Family-Group Names in Zoology.

History of Case 2600

An application for the designation of *Nautilus orbiculus* Forsskål, 1775 as the type species of *Sorites* Ehrenberg, [1839] was received from Drs A. R. Loeblich, Jr. & H. Tappan (*University of California, Los Angeles, U.S.A.*) on 3 March 1987. After correspondence the case was published in *BZN* 44: 160–161 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in *BZN* 44: 161. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — 1: Schuster.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Holthuis commented that the case could have been solved without the Commission's help if the neotype of *N. orbiculus* had also been designated as the neotype of *S. dominicensis*, whereby the two species would have become objective synonyms. Kraus would have preferred more information on usage and importance of the generic name in question.

The spelling Forsskål has been adopted for the author of *Nautilus orbiculus* (see *BZN* 22: 9).

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

orbiculus, *Nautilus*, Forsskål, 1775, *Descriptiones animalium* . . . p. 125.

- Sorites* Ehrenberg, [1839], *Physikalische Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin*, **1838**(1840)[1839]: 134.
- SORITIDAE Ehrenberg, [1839], *Physikalische Abhandlungen der Königlichen Akademie der Wissenschaften zu Berlin*, **1838**(1840)[1839]: 109.

OPINION 1537

***Discocyclina* Gümbel, 1870 (Foraminiferida): *Orbitolites prattii* Michelin, 1847 designated as the type species**

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Discocyclina* Gümbel, 1870 are hereby set aside and *Orbitolites prattii* Michelin, 1847 is designated as type species.

(2) The name *Discocyclina* Gümbel, 1870 (gender: feminine), type species by designation under the plenary powers in (1) above, *Orbitolites prattii* Michelin, 1847, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *prattii* Michelin, 1847, as published in the binomen *Orbitolites prattii* (specific name of the type species of *Discocyclina* Gümbel, 1870) is hereby placed on the Official List of Specific Names in Zoology.

(4) The name DISCOCYCLININAE Galloway, 1928 (type genus *Discocyclina* Gümbel, 1870) is hereby placed on the Official List of Family-Group Names in Zoology.

History of Case 2599

An application for the designation of *Orbitolites prattii* Michelin, 1847 as the type species of *Discocyclina* Gümbel, 1870 was received from Drs A. R. Loeblich, Jr. & H. Tappan (*University of California, Los Angeles, U.S.A.*) on 3 March 1987. After correspondence the case was published in BZN 44: 162–163 (September 1987). Notice of the case was sent to appropriate journals. No comments were received. It should be noted that the correct name of the type species is *O. prattii* Michelin, 1847, as in the request to the Commission, and not *O. pratti* of 1846 as cited by the workers quoted in the application.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 163. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 23: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — none.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Kraus would have preferred more information on usage and importance of the generic name in question.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Discocyclina, Gümbel, 1870, *Abhandlungen der Mathematisch-Physikalischen Classe der Königlich Bayerischen Akademie der Wissenschaften*, 10(2): 687.

DISCOCYCLININAE Galloway, 1928, *Journal of Paleontology*, 2: 55.

prattii, *Orbitolites*, Michelin, 1847, *Iconographie zoophytologique*, p. 278.

OPINION 1538

Disculiceps Joyeux & Baer, 1935 (Cestoidea): conserved

Ruling

(1) Under the plenary powers the generic name *Discocephalum* Linton, 1891 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The following names are hereby placed on the Official List of Generic Names in Zoology:

- (a) *Disculiceps* Joyeux & Baer, 1935 (gender: masculine), type species by indication under Article 67h *Discocephalum pileatum* Linton, 1891;
- (b) *Discocephala* Laporte, 1833 (gender: feminine), type species by monotypy *Discocephala marmorea* Laporte, 1833.

(3) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *pileatum* Linton, 1891, as published in the binomen *Discocephalum pileatum* (specific name of the type species of *Disculiceps* Joyeux & Baer, 1935);
- (b) *marmorea* Laporte, 1833, as published in the binomen *Discocephala marmorea* (specific name of the type species of *Discocephala* Laporte, 1833).

(4) The following names are hereby placed on the Official List of Family-Group Names in Zoology:

- (a) DISCULICIPITIDAE Joyeux & Baer, 1935 (type genus *Disculiceps* Joyeux & Baer, 1935; Cestoidea, Lecanicephalidea);
- (b) DISCOCEPHALINAE Fieber, 1861 (type genus *Discocephala* Laporte, 1833; Insecta, Hemiptera).

(5) The name *Discocephalum* Linton, 1891, as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

(6) The name DISCOCEPHALIDAE Pinter, 1928 is hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (a junior homonym of DISCOCEPHALINAE Fieber, 1861).

History of Case 2591

An application for the conservation of *Disculiceps* Joyeux & Baer, 1935 was received from Dr J. N. Caira (*University of Connecticut, Storrs, U.S.A.*) on 6 February 1986. After correspondence the case was published in BZN 44: 168–169 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 168–169. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — 1: Hahn.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Hahn considered that it was wrong to replace a generic name only to avoid homonymy between two family-group names, and that it would have been better to have changed the stem of the cestode name.

After voting it was noticed that no request had been made to the Commission to place the specific names of the type species on the Official List. This omission from the application and voting papers was a clerical error, and its rectification does not require the use of the plenary powers. The original spelling of DISCULICIPITIDAE Joyeux & Baer, 1935 is correct (cf. BZN 44: 168-169), since the genitive of the Latin *-ceps* (= head) is *-cipitis*.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

Discocephala Laporte, 1833, *Magasin de Zoologie*, 2: 57

DISCOCEPHALIDAE Pinter, 1928, *Zoologische Jahrbuecher. Abteilung fuer Anatomie und Ontogenie der Tiere*, 50: 87.

DISCOCEPHALINAE Fieber, 1861, *Die Europäischen Hemiptera Halbfluger (Rhynchota Heteroptera)*, p. 77.

Discocephalum Linton, 1891, *Report U.S. Commissioner of Fish and Fisheries for 1887*, 15: 781.

DISCULICIPITIDAE Joyeux & Baer, 1935, *Bulletin de la Société Zoologique de France*, 60: 499.

Disculiceps Joyeux & Baer, 1935, *Bulletin de la Société Zoologique de France*, 60: 499.

marmorea, *Discocephala*, Laporte, 1833, *Magasin de Zoologie*, 2: 57.

pileatum, *Discocephalum*, Linton, 1891, *Report U.S. Commissioner of Fish and Fisheries for 1887*, 15: 781.

OPINION 1539

***Conus floridanus* Gabb, 1869 (Mollusca, Gastropoda): not to be given precedence over *Conus anabathrum* Crosse, 1865**

Ruling

The name *anabathrum* Crosse, 1865, as published in the binomen *Conus anabathrum*, is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2563

An application for the conservation of *Conus floridanus* Gabb, 1869 by the suppression of the senior subjective synonym *Conus anabathrum* Crosse, 1865 was received from Dr W. O. Cernohorsky (*Auckland Institute and Museum, Auckland, New Zealand*) on 18 March 1986. After correspondence the case was published in BZN 44: 21–22 (March 1987). Notice of the case was sent to appropriate journals. An opposing comment by Dr M. G. Harasewych and Mr R. E. Petit (*Smithsonian Institution, Washington, D.C., U.S.A.*) was published in BZN 45:51.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 21–22. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 8: Bock, Corliss, Melville, Nielsen, Savage, Schuster, Thompson, Trjapitzin

Negative votes — 14: Bayer, Cocks, Cogger, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Mroczkowski, Starobogatov, Uéno, Willink

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Ride abstained. Cocks, Cogger, Kabata, Martins de Souza and Willink agreed with the comments of Dr Harasewych and Mr Petit. Bayer and Hahn said they would have voted for precedence being given to *Conus floridanus*, but they did not support the proposed suppression of the senior synonym.

The case was thus not carried.

Original reference

The following is the original reference to the name placed on an Official List by the ruling given in the present Opinion:

anabathrum, *Conus*, Crosse, 1865, *Journal de Conchyliologie*, 13: 304.

OPINION 1540

Avicula gryphaeoides J. de C. Sowerby, 1836 (Mollusca, Bivalvia): specific name conserved

Ruling

(1) Under the plenary powers the specific name *gryphaeoides* Sedgwick, 1829, as published in the binomen *Avicula gryphaeoides*, and all other uses of that name prior to the publication of *Avicula gryphaeoides* J. de C. Sowerby, 1836, are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.

(2) The name *gryphaeoides* J. de C. Sowerby, 1836, as published in the binomen *Avicula gryphaeoides*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *gryphaeoides* Sedgwick, 1829, as published in the binomen *Avicula gryphaeoides* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2587

An application for the conservation of *Avicula gryphaeoides* J. de C. Sowerby, 1836 was received from Miss G. Lee (*University College London, Gower Street, London, U.K.*) on 23 December 1986. After correspondence the case was published in BZN 44: 164–165 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 165. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — none.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Dupuis abstained, commenting that he did not find the current taxonomic position of the two *A. gryphaeoides* sufficiently clear. The senior subjective synonym of *A. gryphaeoides* Sedgwick, 1829 is *Pseudomonotis speluncaria* (Schlotheim, 1820, p. 292) and not 1816 as stated in BZN 44: 164, para. 2.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present opinion:

gryphaeoides, *Avicula*, Sedgwick, 1829, *Transactions of the Geological Society, London*, (2)3: 119.
gryphaeoides, *Avicula*, J. de C. Sowerby, 1836, *In* Fitton, *Transactions of the Geological Society, London*, (2)4: 156.

OPINION 1541

Loxoconchella Triebel, 1954 (Crustacea, Ostracoda): *Loxoconcha honoluliensis* Brady, 1880 confirmed as the type species

Ruling

(1) It is hereby confirmed that *Loxoconcha honoluliensis* Brady, 1880 is the type species of *Loxoconchella* Triebel, 1954.

(2) The name *Loxoconchella* Triebel, 1954 (gender: feminine), type species by original designation *Loxoconcha honoluliensis* Brady, 1880, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *honoluliensis* Brady, 1880, as published in the binomen *Loxoconcha honoluliensis* and as interpreted by the lectotype designated by Puri & Hulings (1976) (specific name of the type species of *Loxoconchella* Triebel, 1954) is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2423

An application for the confirmation of *Loxoconcha honoluliensis* Brady, 1880 as the type species of *Loxoconchella* Triebel, 1954 was received from Drs H. Malz (*Forschungs-Institut Senckenberg, Frankfurt am Main, Fed. Rep. Germany*) & A. J. Keij (*Rijswijk, The Netherlands*) on 14 September 1982. After correspondence the case was published in BZN 44: 170–171 (September 1987). Notice of the case was sent to appropriate journals. A comment in support was received from Professor L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*).

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 170–171. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — 1: Dupuis.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

honoluliensis, *Loxoconcha*, Brady, 1880, *Report on the Scientific Results of the voyage of HMS Challenger during the years 1873–76*, 1(3): 117.

Loxoconchella Triebel, 1954, *Senckenbergiana Lethaea*, 35: 17.

OPINION 1542

Chelifer Geoffroy, 1762 (Arachnida, Pseudoscorpionida): conserved

Ruling

(1) Under the plenary powers the generic name *Chelifer* Geoffroy, 1762 is hereby ruled to be available.

(2) The name *Chelifer* Geoffroy, 1762 (gender: masculine), type species by subsequent designation by Latreille (1810) '*Scorpio cancroides* Fabricius, 1775' (= *Acarus cancroides* Linnaeus, 1758) is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *cancroides* Linnaeus, 1758, as published in the binomen *Acarus cancroides* (specific name of the type species of *Chelifer* Geoffroy, 1762), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name CHELIFERIDAE Westwood, 1838 (type genus *Chelifer* Geoffroy, 1762) is hereby placed on the Official List of Family-Group Names in Zoology.

(5) The name *Obisium* Illiger, 1798 is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology (a junior objective synonym of *Chelifer* Geoffroy, 1762).

History of Case 2478

An application for the conservation of *Chelifer* Geoffroy, 1762 was received from Dr M. S. Harvey (*Museum of Victoria, Abbotsford, Australia*) on 31 May 1984. After correspondence the case was published in BZN 44: 188–189 (September 1987). Notice of the case was sent to appropriate journals.

A comment in support by Professor I. M. Kerzhner (*Academy of Sciences of the USSR, Leningrad*) was published in BZN 45: 49 (March 1988).

A comment by Professor L. B. Holthuis pointed out that the family-group name CHELIFERIDAE can be taken from Westwood (1838, p. 145).

Because it did not give single words for specific names Geoffroy's 1762 work was rejected in Opinion 228 (April 1954). In that Opinion specialists were nevertheless invited to submit proposals for making individual names available as from Geoffroy when, in their view, that course would best serve stability. Since then, 15 of Geoffroy's 61 new generic names have been ruled (under the plenary powers) to be available. The most recent of the eight opinions concerned is Opinion 1273 (BZN 41: 28–31, March 1984), in which four coleopteran generic names were made available as from Geoffroy, 1762.

After Geoffroy, the name *Chelifer* was next given by Müller (1764, p. xxiv), without included species, in a table comparing Linnaeus and Geoffroy genera, which synonymised it with *Acarus* Linnaeus, 1758. Although Müller did not adopt *Chelifer* as the valid name of a taxon, his listing might perhaps be regarded as making the name available under Articles 11e and 50g. *Chelifer* has apparently never been attributed to Müller (although one of Geoffroy's new generic names (*Crioceris*) was put on the Official List with Müller's authorship in Opinion 908).

The Commission was accordingly asked to vote on proposals (1)–(5) published in BZN 44: 189, with (4) amended to give Westwood, 1838 as the author of CHELIFERIDAE.

Proposal (6) on BZN 44: 189 (the placing of the invalid name OBISIIDAE on the Official Index) is unnecessary and was withdrawn.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 189, as amended above. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — 1: Kraus.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Professor Martins de Souza commented 'I agree with Professor Dupuis (BZN 41: 30) "... que la Commission, dans son Opinion 228, avait agi avec précipitation en rejetant en bloc le travail de Geoffroy ...". Furthermore, *Chelifer cancroides* is a synanthropic species with world distribution and the rejection of *Chelifer* would cause great confusion'. Professor Starobogatov commented that the conservation of *Chelifer* Geoffroy was very important.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

cancroides, *Acarus*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 616.

Chelifer Geoffroy, 1762, *Histoire abrégée des insectes qui se trouvent aux environs de Paris*, vol. 2, p. 617.

CHELIFERIDAE Westwood, 1838, *The Entomologist's text book; an introduction to the natural history, structure, physiology and classification of Insects, including the Crustacea and Arachnida*, p. 145.

Obisium Illiger, 1798, In Kugelann, *Verzeichniss der Käfer Preussens. Entworfen von Johann Gottlieb Kugelann. Ausgearbeitet von Johann Karl Wilhelm Illiger*, p. 501.

OPINION 1543

Dytiscus cinereus Linnaeus, 1758 (currently *Graphoderus cinereus*; Insecta, Coleoptera): neotype replaced

Ruling

(1) Under the plenary powers:

- (a) all previous designations of neotype for the nominal species *Dytiscus cinereus* Linnaeus, 1758 are hereby set aside;
- (b) the specimen referred to in BZN 44: 176, para. 6, and deposited in the Lund Museum is designated as the neotype of *Dytiscus cinereus* Linnaeus, 1758, and the entry in the Official List of Specific Names in Zoology is amended accordingly.

History of Case 2602

An application for the designation of a replacement neotype for *Dytiscus cinereus* Linnaeus, 1758 was received from Drs A. N. Nilsson (*University of Umeå, Sweden*) & G. N. Foster (*Prestwick, Scotland, U.K.*) on 16 March 1987. After correspondence the case was published in BZN 44: 176–177 (September 1987). Notice of the case was sent to appropriate journals. No comments were received. It was noted on the voting papers that, were the proposals to be approved, the entry on the Official List for *Dytiscus cinereus* would be amended to record the new neotype designation (and the previous neotype in the British Museum (Natural History) would need to have its label amended).

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 176–177. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza (in part), Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Trjapitzin, Uéno, Willink

Negative votes — 1: Thompson.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Thompson considered that if Angus (BZN 44: 176) could identify the true *cinereus* without reference to the neotype, then the original neotype was not needed nor likewise its replacement. Martins de Souza commented that he considered it necessary to set aside the previous designation of a neotype, but he was not convinced of the necessity for the replacement neotype. However, J. Balfour-Brown in 1960 (BZN 17: 248–249) pointed out that a neotype was necessary for *D. cinereus*, and this argument was accepted by the Commission in Opinion 618. The specimen selected for this purpose was substituted by another before the Commission had voted (see BZN 18: 366–367), and this substitute specimen is unfortunately an example of *D. bilineatus* De Geer, 1774 (see BZN 44: 176).

Original reference

The following is the original reference to the name on an Official List, entry amended by the ruling given in the present Opinion:

cinereus, *Dytiscus*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 412.

OPINION 1544

ETHMIIDAE Busck, 1909 (Insecta, Lepidoptera): given precedence over AZINIDAE Walsingham, 1906

Ruling

(1) Under the plenary powers it is hereby ruled that the family-group name ETHMIIDAE Busck, 1909 is to be given precedence over the name AZINIDAE Walsingham, 1906, whenever the two are considered synonyms.

(2) The following names are hereby placed on the Official List of Generic Names in Zoology:

- (a) *Ethmia* Hübner, [1819] (gender: feminine), type species by monotypy *Phalaena pyrausta* Hübner, [1819];
- (b) *Azinis* Walker, 1863 (gender: feminine), type species by monotypy *Azinis hilarella* Walker, 1863.

(3) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *pyrausta* Hübner, [1819], as published in the binomen *Phalaena pyrausta* (specific name of the type species of *Ethmia* Hübner, [1819];
- (b) *hilarella* Walker, 1863, as published in the binomen *Azinis hilarella* (specific name of the type species of *Azinis* Walker, 1863).

(4) The following names are hereby placed on the Official List of Family-Group Names in Zoology:

- (a) ETHMIIDAE Busck, 1909 (type genus *Ethmia* Hübner, [1819], with the endorsement that it is to be given precedence over AZINIDAE Walsingham, 1906 (type genus *Azinis* Walker, 1863) whenever the two names are considered to be synonyms;
- (b) AZINIDAE Walsingham, 1906 (type genus *Azinis* Walker, 1863) with the endorsement that it is not to be given priority over ETHMIIDAE Busck, 1909 (type genus *Ethmia* Hübner, [1819]), whenever the two names are considered to be synonyms.

History of Case 2550

An application to give precedence to ETHMIIDAE Busck, 1909 over AZINIDAE Walsingham, 1906 was received from Professor J. A. Powell (*University of California, Berkeley, U.S.A.*) on 13 January 1986. After correspondence the case was published in BZN 44: 185–187 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 186–187. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Trjapitzin, Uéno, Willink

Negative votes — 1: Starobogatov.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Heppell voted for the case, but with reservation, and made the following comment: 'It has been stated, in this case as well as in a number of other recent cases, that the family-group name (AZINIDAE) cannot be suppressed without also suppressing its type genus (*Azinis*). The cumbersome procedure of relative priority is then brought into play as a means of preserving an almost totally unused and unneeded name, just in case it should ever be required at some future date. This procedure, by placing the conditionally suppressed name on the Official List, may lead zoologists who are not specialists in nomenclature to assume its status has thereby been enhanced. It seems to me worth considering whether the Commission could instead, in such cases, suppress the senior family-group name for the purposes of the Principle of Priority and the Principle of Homonymy, using a formula such as 'AZINIDAE Walsingham, 1906 and all uses of that name prior to the publication of ETHMIIDAE Busck, 1909', or 'all uses of the name AZINIDAE prior to [any date up to the date of the Opinion]', which would: (1) leave taxonomists free to reintroduce the name, with a new author and date but of course with the same type genus, at some date subsequent to that of the family-group name being conserved; (2) place the unwanted name (as of its original usage) on the Official Index rather than the Official List; (3) allow the generic name to retain its potential for becoming the type genus again at any time subsequent to the date determined by the Commission'.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

AZINIDAE Walsingham, 1906, *Annals and Magazine of Natural History*, (7)18: 177.

Azinis Walker, 1863, *List of the specimens of lepidopterous Insects in the collection of the British Museum*, Part 28, p. 541.

Ethmia Hübner, [1819], *Verzeichnis bekannter Schmettlinge* [sic], p. 163.

ETHMIIDAE Busck, 1909, *Proceedings of the Entomological Society of Washington*, 11: 91.

hilarella, *Azinis*, Walker, 1863, *List of the specimens of lepidopterous Insects in the collection of the British Museum*, Part 28, p. 541.

pyrausta, *Phalaena*, Hübner, [1819], *Verzeichnis bekannter Schmettlinge* [sic], p. 163.

OPINION 1545

Glabellula Bezzi, 1902 (Insecta, Diptera): *Platygaster arcticus* Zetterstedt, 1838 designated as the type species

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Glabellula* Bezzi, 1902 are hereby set aside and *Platygaster arcticus* Zetterstedt, 1838, is designated as type species.

(2) The name *Glabellula* Bezzi, 1902 (gender: feminine), type species by designation under the plenary powers in (1) above, *Platygaster arcticus* Zetterstedt, 1838, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *arcticus* Zetterstedt, 1838, as published in the binomen *Platygaster arcticus* (specific name of the type species of *Glabellula* Bezzi, 1902) is hereby placed on the Official List of Specific Names in Zoology.

(4) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:

- (a) *Platygaster* Zetterstedt, 1838 (a junior homonym of *Platygaster* Latreille, 1809);
- (b) *Glabella* Loew, 1873 (a junior homonym of *Glabella* Swainson, 1840);
- (c) *Sphaerogaster* Zetterstedt, 1842 (a junior homonym of *Sphaerogaster* Sturm, 1826).

History of Case 2584

An application for the designation of *Platygaster arcticus* Zetterstedt, 1838 as the type species of *Glabellula* Bezzi, 1902 was received from Dr N. L. Evenhuis (*Bishop Museum, Hawaii, U.S.A.*) on 30 September 1986. After correspondence the case was published in BZN 44: 180–182 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 181; proposal (2) was deleted as being redundant in view of proposal (1). At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 23: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — none.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Thompson considered that the Commission should have been asked to vote on proposal (2) of BZN 44: 181, i.e. to declare that *Glabellula* Bezzi, 1902 is a replacement name for *Platygaster* Zetterstedt, 1838.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

- arcticus*, *Platygaster*, Zetterstedt, 1838, *Insecta Lapponica descripta*, Section 3, Diptera, p. 574.
- Glabella* Loew, 1873, *Beschreibung europäischer Dipteren*, Band 3, p. 208.
- Glabellula* Bezzi, 1902, *Zeitschrift für Systematische Hymenopterologie und Dipterologie*, 2: 191.
- Platygaster* Zetterstedt, 1838, *Insecta Lapponica descripta*, Section 3, Diptera, p. 574.
- Sphaerogaster*, Zetterstedt, 1842, *Diptera Scandinaviae. Disposita et descripta*, vol. 1, p. 233.

OPINION 1546

***Chelonus* Panzer, 1806 (Insecta, Hymenoptera) and *Anomala* Samouelle, 1819 (Insecta, Coleoptera): names conserved**

Ruling

(1) Under the plenary powers the generic name *Anomala* von Block, 1799, and all uses of that name prior to the publication of *Anomala* Samouelle, 1819, are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.

(2) The following names are hereby placed on the Official List of Generic Names in Zoology:

(a) *Anomala* Samouelle, 1819 (gender: feminine), type species by monotypy *Melolontha frischii* Fabricius, 1775;

(b) *Chelonus* Panzer, 1806 (gender: masculine), type species by designation by Curtis (1837) *Ichneumon oculator* Fabricius, 1775.

(3) The following names are hereby placed on the Official List of Specific Names in Zoology:

(a) *frischii* Fabricius, 1775, as published in the binomen *Melolontha frischii* (specific name of the type species of *Anomala* Samouelle, 1819);

(b) *oculator* Fabricius, 1775, as published in the binomen *Ichneumon oculator* (specific name of the type species of *Chelonus* Panzer, 1806).

(4) The name *Anomala* von Block, 1799, as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

History of Case 2336

An application for the conservation of *Chelonus* Panzer, 1806 and *Anomala* Samouelle, 1819 was received from Dr C. van Achterberg (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) on 5 March 1980. After correspondence the case was published in BZN 44: 172–173 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 173. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes—23: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes—none.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Anomala von Block, 1799, In Becker, *Der Plauische Grund bei Dresden, mit Hinsicht auf Naturgeschichte und schöne Gartenkunst*, p. 119.

Anomala Samouelle, 1819, *The Entomologist's Useful Compendium*, p. 191.

Chelonus Panzer, 1806, *Kritische Revision der Insektenfaune Deutschlands, nach dem System bearbeitet*, vol. 2, p. 99.

frischii, *Melolontha*, Fabricius, 1775, *Systema Entomologiae*, p. 37.

oculator, *Ichneumon*, Fabricius, 1775, *Systema Entomologiae*, p. 338.

OPINION 1547

Silurus felis Linnaeus, 1766 (currently *Ariopsis felis*; Osteichthyes, Siluriformes): neotype designated

Ruling

(1) Under the plenary powers any type specimen status of the specimen 125 in the Linnean Society of London collection, labelled *Silurus felis* Linnaeus, No. 19 of Garden, is hereby set aside and the specimen (BMNH 1985.11.11:1), the data for which are given in BZN 44: 33, para. 16, is designated as neotype of *Silurus felis*.

(2) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *felis* Linnaeus, 1766, as published in the binomen *Silurus felis* and as defined by the neotype designated in (1) above;
- (b) *marinus* Mitchell, 1815, as published in the binomen *Silurus marinus*.

History of Case 2533

An application for the designation of a neotype for *Silurus felis* Linnaeus, 1766 was received from Dr W. R. Taylor (*Smithsonian Institution, Washington, D.C., U.S.A.*) on 23 September 1985. After correspondence the case was published in BZN 44: 31–35 (March 1987). Notice of the case was sent to appropriate journals. A comment in support by Dr A. Wheeler (*British Museum (Natural History), London, U.K.*) was published in BZN 45: 219–221 (September 1988). This also gave an alternative explanation for the cause of confusion over Linnaeus' type material of *Silurus felis*.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 34. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 22: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Savage, Schuster, Starobogatov, Thompson, Trjapitzin, Uéno, Willink

Negative votes — none.

No votes were returned by Gruchy, Halvorsen and Lehtinen. Ride abstained.

Original references

The following are the original references to the names placed on an Official List by the ruling given in the present Opinion:

felis, *Silurus*, Linnaeus, 1766, *Systema Naturae*, Ed. 12, vol. 1(1), p. 501.

marinus, *Silurus*, Mitchell, 1815, *Transactions of the Literary and Philosophical Society of New York*, 1: 433.

OPINION 1548

Sarotherodon melanotheron Rüppell, 1852 (Osteichthyes, Perciformes): specific name conserved

Ruling

(1) Under the plenary powers the specific name *melagaster* Bloch, 1792, as published in the binomen *Labrus melagaster*, is hereby suppressed for the purposes of the Principles of Priority but not for those of the Principle of Homonymy.

(2) The name *Sarotherodon* Rüppell, 1852 (gender: masculine), type species by monotypy *Sarotherodon melanotheron* Rüppell, 1852, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *melanotheron* Rüppell, 1852, as published in the binomen *Sarotherodon melanotheron* (specific name of the type species of *Sarotherodon* Rüppell, 1852) is hereby placed on the Official List of Specific Names in Zoology.

(4) The name *melagaster* Bloch, 1792, as published in the binomen *Labrus melagaster* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2594

An application for the conservation of the specific name of *Sarotherodon melanotheron* Rüppell, 1852 was received from Dr E. Trewavas (*British Museum (Natural History)*, London, U.K.) on 20 February 1987. After correspondence the case was published in BZN 44: 190–191 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 December 1988 the members of the Commission were invited to vote on the proposals published in BZN 44: 190–191. At the close of the voting period on 1 March 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Corliss, Dupuis, Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Ride, Savage, Schuster, Starobogatov, Trjapitzin, Uéno, Willink

Negative votes — 2: Cogger and Thompson.

No votes were returned by Gruchy, Halvorsen and Lehtinen.

Cogger commented that in the absence of any substantive evidence that the use of the senior name would cause confusion, use of the plenary powers to suppress *melagaster* was unwarranted. Thompson also considered that the reasons for suppression were inadequate.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

melagaster, *Labrus*, Bloch, 1792, *Naturgeschichte der ausländischen Fische*, Part 6, p. 27.

melanotheron, *Sarotherodon* Rüppell, 1852, *Verzeichniss der in dem Museum der Senkenbergischen Naturforschenden Gesellschaft aufgestellten Sammlungen*, part 4, p. 21.

Sarotherodon Rüppell, 1852, *Verzeichniss der in dem Museum der Senkenbergischen Naturforschenden Gesellschaft aufgestellten Sammlungen*, part 4, p. 21.

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INSTRUCTIONS TO AUTHORS

The following notes are primarily for those preparing applications to the Commission; other authors should comply with the relevant sections. Parts of the Bulletin since 44 (1) should be consulted as examples.

Title. This should be written in lower case letters and include the names to be conserved. A specific name should be cited in the original binomen, with the current binomen in parentheses.

Author's name. Full postal address should be given.

Abstract. This will be prepared by the Commission Secretariat.

Text. Typed in double spacing, this should consist of numbered paragraphs setting out the details of the case and leading to a final paragraph of formal proposals. Text references should give dates and page numbers in parentheses, e.g. 'Daudin (1800, p. 39) described . . . '.

References. These should be given for all authors cited. The titles of periodicals should be *in full* and be underlined; numbers of volumes, parts, etc. should be in arabic figures, separated by a colon from page numbers. Book titles should be underlined and followed by the number of pages, the publisher and the place of publication.

Submission of application. Two copies should be sent to the address on the inside front cover. The Secretariat is willing to offer additional advice at an early stage in the preparation of manuscripts.

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The Bulletin of Zoological Nomenclature



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on Zoological Nomenclature*



THE BULLETIN OF ZOOLOGICAL NOMENCLATURE

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BULLETIN OF ZOOLOGICAL NOMENCLATURE

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Notices

(a) *Invitation to comment.* The Commission is entitled to start to vote on applications published in the *Bulletin of Zoological Nomenclature* six months after the publication of each application. This period is normally extended to enable comments to be submitted. Any zoologist who wishes to comment on any of the applications is invited to send his contribution, in duplicate, to the Secretary of the Commission as quickly as possible, and in any case in time to reach the Secretary within twelve months of the date of publication of the application.

(b) *Invitation to contribute general articles.* At present the *Bulletin* comprises mainly applications concerning names of particular animals or groups of animals, resulting comments and the Commission's eventual rulings (Opinions). Proposed amendments to the Code are also published for discussion.

Articles or notes of a more general nature are actively welcomed provided that they raise nomenclatural issues, although they may well deal with taxonomic matters for illustrative purposes. It should be the aim of such contributions to interest an audience wider than some small group of specialists.

(c) *Receipt of new applications.* The following new applications have been received since going to press for volume 46, part 2 (published on 23 June 1989):

- (1) *Phororhacos* Ameghino, 1889 (Aves, Gruiformes): proposed conservation. (Case 2723). L. M. Chiappe & M. F. Soria.
- (2) *Diorchis thomasonum* Czapliński & Aeschlimann, 1987 (Cestoda): proposed confirmation as the nomenclaturally valid name of *Diorchis flavescens* (Kreff, 1873) sensu Johnston, 1912. (Case 2724). B. Czapliński & A. Aeschlimann.
- (3) *Holostaspis subbadius* var. *rubustulus* Berlese, 1904 (currently *Macrocheles robustulus*; Arachnida, Acarina): proposed conservation of *robustulus* as the correct spelling of the specific name. (Case 2725). R. B. Halliday.
- (4) *Elephas primigenius* Blumenbach, 1799 (currently *Mammuthus primigenius*; Mammalia, Proboscidea): proposed designation of a neotype. (Case 2726). W. E. Garutt.
- (5) *Coccyzus eulerei* Cabanis, 1873 (Aves, Cuculiformes): proposed conservation of the specific name. (Case 2727). E. O. Willis & Y. Oniki.
- (6) *Artemia franciscana* Kellogg, 1906 (Crustacea, Anostraca): proposed conservation of the specific name. (Case 2728). D. Belk & S. T. Bowen.
- (7) *Fusus* Helbling, 1779 (Mollusca, Gastropoda): proposed rejection as a generic name. (Case 2729). R. E. Petit & D. Wilson.
- (8) *Cheilosia* Meigen, 1822 and *Pyrophæna* Schiner, 1860 (Insecta, Diptera): proposed conservation, and proposed designation of *Syrphus flavipes* Panzer.

- 1798 as the type species of *Cheilosia*. (Case 2730). A. V. Barkalov & I. M. Kerzhner.
- (9) *Planoplatyscelis* Kaszab, 1940 (Insecta, Coleoptera): proposed designation of *Platyscelis margelanica* Kraatz, 1882 as the type species. (Case 2731). L. V. Egorov.
- (10) *Ceratites nodosus* (Mollusca, Ammonoidea): proposed attribution to Schlotheim, 1813, and proposed designation of a lectotype. (Case 2732). M. Urlichs.
- (11) *Mycetoporus* Mannerheim, 1830 (Insecta, Coleoptera): proposed conservation of *Tachinus punctus* Gravenhorst, 1806 as the type species, and proposed precedence over *Ischnosoma* Stephens, 1829. (Case 2733). J. M. Campbell.
- (12) *Thalassochernes* Beier, 1940 (Arachnida, Pseudoscorpionida): proposed designation of *Chelifer taierensis* With, 1907 as the type species. (Case 2734). M. S. Harvey.
- (13) *Afroditha* Beier, 1930 (Arachnida, Pseudoscorpionida): proposed confirmation of *Chthonius serrulatus* Silvestri, 1918 as the type species. (Case 2735). M. S. Harvey.
- (14) *Haustator* Montfort, 1810 (Mollusca, Gastropoda): proposed conservation. (Case 2736). R. E. Petit & J. Le Renard.

(d) *Rulings of the Commission*. Each Opinion, Declaration and Direction published in the *Bulletin* constitutes an official ruling of the International Commission on Zoological Nomenclature, by virtue of the votes recorded, and comes into force on the day of publication of the *Bulletin*.

Election of the President of the International Commission on Zoological Nomenclature

The members of the Commission have elected Prof Dr OTTO KRAUS to succeed Dr W. D. L. Ride as President, with effect from 13 July 1989.

Prof Kraus is from the Zoologisches Institut und Zoologisches Museum, Hamburg, Federal Republic of Germany. He was first elected to the Commission in 1963, and was re-elected in 1976. His zoological interests lie in the fields of spider taxonomy and zoogeography.

Official Lists and Indexes of Names and Works in Zoology—Supplement

The Official Lists and Indexes of Names and Works in Zoology was published in 1987. This gave all the names and works on which the International Commission on Zoological Nomenclature had ruled since it was set up in 1895 up to December 1985. There were about 9,900 entries.

In the three years 1986–88, 544 names and 3 works have been added to the Official Lists and Indexes. A supplement has been prepared giving these additional entries, together with some amendments to entries in the 1987 volume. This supplement was circulated with Vol. 46, Part 1 of the *Bulletin of Zoological Nomenclature*. Copies can be obtained without charge from either of the following addresses, from which the *Official Lists and Indexes of Names and Works in Zoology* can be ordered at the price shown:

The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £60 or \$110
or

The American Association for Zoological Nomenclature, c/o NHB Stop 163, National Museum of Natural History, Washington D.C. 20560, U.S.A. Price \$110 (\$100 to members of A.A.Z.N.).

The International Code of Zoological Nomenclature

The Third Edition (published 1985) supersedes all earlier versions and incorporates many changes.

Copies may be ordered from The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £19.00 or US\$35.00 (postage included). Payment should accompany orders.

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Case 2652

CHORISTIDAE Verrill, 1882 (Mollusca, Gastropoda) and CHORISTIDAE Esben-Petersen, 1915 (Insecta, Mecoptera): a proposal to remove the homonymy

Alan R. Kabat

Department of Mollusks, Museum of Comparative Zoology, Harvard University, Cambridge MA 02138, U.S.A.

Abstract. The purpose of this application is to remove the homonymy between two family-group names: CHORISTIDAE Verrill, 1882, is in limited use for a restricted genus (*Choristes*) of gastropods of doubtful taxonomic position, and it is proposed that it be emended to CHORISTEIDAE Verrill, 1882 in order to remove the homonymy with CHORISTIDAE Esben-Petersen, 1915 (based on the Australian scorpion fly genus *Chorista* Klug, 1836), which has been used widely and repeatedly.

1. A family-group name 'Choristidae' was first proposed by Sollas (1880, p. 386) for the non-lithistid tetractinellid Demospongiae (Porifera). However, it was not based on any extant sponge genus but rather for etymological reasons (Greek, 'apart, separated'), in that the 'Choristidae' were those sponges whose 'spicules are separate and not locked together into a network', as opposed to the Lithistida, which have connected spicules (Sollas, 1880, p. 386). Subsequently Sollas elevated this taxon to ordinal level (1886a, p. 112; 1886b, p. 177). The Code does not apply to taxa above superfamily level so the name Choristida is still available at the ordinal level. However, under Articles 11f and 29a which state that a family-group name must be based on a generic name, the name CHORISTIDAE Sollas, 1880, which has never been used since its inception, is unavailable.

2. Verrill (1882, pp. 540–541) proposed the family name CHORISTIDAE, based on the gastropod genus *Choristes* Carpenter in Dawson, 1872 (p. 392). The type species of *Choristes* Carpenter in Dawson, 1872 is *C. elegans* Carpenter in Dawson, 1872 (p. 392) by monotypy. Since that time, this taxon has had an unsettled systematic status, both in terms of its rank and its position in gastropod classification. *Chorista elegans* is a Pleistocene fossil from Canada; hence only its shell form is known, which complicates the systematic analysis. It was originally included in the NATICIDAE (Mesogastropoda). Molluscan taxonomists have taken several approaches for this taxon. Traditionally the CHORISTIDAE has been provisionally placed in the Rissoacea (Mesogastropoda). The compilations of Thiele (1929, p. 179); Wenz (1939, pp. 649–650); Taylor & Sohl (1962, p. 9); Okutani (1964, pp. 388–389); Kuroda, Habe & Oyama (1971, p. 62); Keen (1971, p. 388); and Abbott (1974, p. 90) have taken this approach, sometimes doubtfully. Clarke (1961, pp. 359–360) placed this family in the more primitive order Archaeogastropoda, but did not specify a superfamily. However, Golikov & Starobogatov (1975, pp. 212, 220) and Marinovich (1975, pp. 169–171; 1977, pp. 338–342) referred

this taxon back to the Naticacea. The former retained it as a family within the 'Aspidophora' [= Naticacea]. The latter synonymized CHORISTIDAE with NATICIDAE Forbes, 1838, and placed *Choristes* in the naticid subfamily POLINICINAE; this was followed by Boss (1982, p. 1010). Again, the few species described in the genus *Choristes* are equivocal: the Eastern Pacific *C. carpenteri* Dall, 1896 and *C. coani* Marinovich, 1975 are naticid. However, the Northwest Atlantic *C. tenera* Verrill, 1882, the South Atlantic *C. agulhasae* Clarke, 1961 and the Japanese *C. vitreus* Kuroda & Habe, 1971, *C. nipponica* Okutani, 1964 and *C. mollis* Okutani, 1964 are not referable to the NATICIDAE, based on their shell morphology and the radular pattern (of *C. tenera*). These latter species may be referred to the similar genus *Choristella* Bush, 1897 (p. 138), an unusual deep-sea member of the Archaeogastropoda (Hickman, 1983, p. 86). In conclusion, if *C. elegans* is a naticid (as claimed by Bouchet & Warén, 1979, p. 225), then the two Eastern Pacific species represent the only described Recent species, and CHORISTIDAE Verrill, 1882 is a junior synonym of NATICIDAE Forbes, 1838, although future classification of the NATICIDAE might resurrect this name at the subfamilial or tribal rank. If, however, the type species of *Choristes* is non-naticid then the name CHORISTIDAE Verrill, 1882 may well be valid elsewhere in the Gastropoda. At present, there is insufficient anatomical evidence to resolve this problem. The insect genus *Choristella* Tillyard, 1917 (p. 298) was renamed *Microchorista* Byers, 1974 (p. 165).

3. Walker (1852, in 1850–1856, p. 197) proposed the generic name *Choristus* (type species *Choristus bifrons* Walker, 1852 by monotypy) in the BOMBYLIIDAE (Insecta, Diptera). However, Marschall (1873, p. 325) in his compilation of zoological generic names, erroneously listed this name as '*Choristes* Walker . . .'. Scudder (1882, p. vi) pointed out the 'notorious inaccuracy and incompleteness' of Marschall's work, and (p. 72) correctly listed *Choristus* Walker, 1852 in his 'Supplemental Index'. However, Scudder's 'Universal Index' (1882, p. 67) still included the entry for '*Choristes* Walk.' after Marschall. Schulze *et al.* (1927, p. 680) correctly noted that '*Choristes* Walker' was an error for *Choristus*. Thus '*Choristes* Walker' represents an incorrect subsequent spelling, is not an available name and does not enter into homonymy. Hull's major revision of the BOMBYLIIDAE (1973, p. 76) placed *Choristus* Walker, 1852 as a junior synonym of *Bombylius* Linnaeus, 1758.

4. Esben-Petersen (1915, p. 232) proposed the subfamily name CHORISTINAE (Insecta, Mecoptera), based on the Australian scorpion-fly genus *Chorista* Klug, 1836 (p. 54). The original description of *Chorista* did not include a nominal species; however, under Article 69a, *C. australis* Klug, 1838 (p. 101) is the type species by subsequent monotypy as it was the first species to be expressly included in this genus. Tillyard (1917, p. 286) used CHORISTIDAE at family level (as CHORISTINAE). This family-group name has been used repeatedly and definitively by entomologists, in general reviews of insect classification and in specialist works on the Mecoptera. Among others these include: Esben-Petersen (1921, pp. 11, 97); Tillyard (1917, p. 286; 1926, p. 330); Brues & Melander (1932, p. 191); Grassé (1951, p. 110); Brues, Melander & Carpenter (1954, p. 216); Byers (1965, p. 123); Hennig (1969, pp. 372–376); Riek (1970, p. 644; 1973); Penny (1975, p. 338); Kaltenbach (1978, p. 10); Penny & Byers (1979, p. 372); Willmann (1978, p. 86; 1987); Brown (1982, p. 556) and Byers & Thornhill (1983, p. 204). Each of these workers has consistently recognized the CHORISTIDAE or CHORISTINAE as a distinct taxon in the Mecoptera.

5. The Commission is asked to conserve the name CHORISTIDAE Esben-Petersen, 1915 (Insecta) on the grounds of stability, as it is frequently used and has been widely recognized as a family-group taxon. This can be achieved by the Commission ruling that the stem of *Choristes* Carpenter in Dawson, 1872 (Mollusca) be changed from CHORIST- to CHORISTE-, thereby making the gastropod family-group name CHORISTEIDAE.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the stem of the generic name *Choristes* Carpenter in Dawson, 1872, for the purposes of Article 29, is *Choriste*-;
- (2) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Chorista* Klug, 1836 (gender: masculine), type species by subsequent monotypy *Chorista australis* Klug, 1838 (Insecta, Mecoptera);
 - (b) *Choristes* Carpenter in Dawson, 1872 (gender: masculine), type species by monotypy *Choristes elegans* Carpenter in Dawson, 1872 (Mollusca, Gastropoda);
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *australis* Klug, 1838, as published in the binomen *Chorista australis* (specific name of the type species of *Chorista* Klug, 1836);
 - (b) *elegans* Carpenter in Dawson, 1872, as published in the binomen *Choristes elegans* (specific name of the type species of *Choristes* Carpenter in Dawson, 1872);
- (4) to place on the Official List of Family-Group Names in Zoology the following names:
 - (a) CHORISTIDAE Esben-Petersen, 1915. (type genus *Chorista* Klug, 1836; Insecta, Mecoptera);
 - (b) CHORISTEIDAE Verrill, 1882 (emended under the plenary powers in (1) above, from CHORISTIDAE Verrill, 1882; type genus *Choristes* Carpenter in Dawson, 1872; Mollusca, Gastropoda);
- (5) to place on the Official Index of Rejected and Invalid Family-Group Names in Zoology the name CHORISTIDAE Verrill, 1882 (emended to CHORISTEIDAE by use of the plenary powers in (1) above; Mollusca, Gastropoda).

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Case 2682

***Fryeria* Gray, 1853 and *F. rueppelii* Bergh, 1869 (Mollusca, Gastropoda): proposed conservation**

D. J. Brunckhorst

Zoology Department, University of Queensland, St. Lucia, Queensland, Australia, 4067

W. B. Rudman

The Australian Museum, P.O. Box A285, Sydney South, New South Wales, Australia, 2000

R. C. Willan

Zoology Department, University of Queensland, St. Lucia, Queensland, Australia, 4067

Abstract. The purpose of this application is to conserve the generic name *Fryeria* Gray, 1853 and the specific name *rueppelii* Bergh, 1869 as the name of its type species, for a nudibranch gastropod, by suppression of the unused senior synonym *Fryeria pustulosa* Gray, 1853.

1. Cuvier (1804, p. 268, pl. 18, fig. 8) established the specific name *pustulosa* for a nudibranch gastropod in the nominal genus *Phyllidia*.

2. Rüppell & Leuckart (1830 or 1831, p. 36, pl. 11, figs. 1a, b) described and figured a specimen from the Red Sea, naming it '*Phyllidia pustulosa* (Cuv.)'.

3. Gray (1853) revised the higher taxonomy of the nudibranchs and decided that the anal position was sufficient to separate one species of phyllidiid from those placed in the genus *Phyllidia*. He named the new genus *Fryeria* (p. 221), gave a 2-line generic definition, and listed one species which he named *Fryeria pustulosa*. After a 4-line description of its external features he referred to '*Phyllidia pustulosa* Rüppell, Atlas, Moll. t. 11 f. 1, 1a *Inhab.* Cosseir. Brit. Museum'. In the following paragraph, Gray said: '*Phyllidia pustulosa*, Cuvier, Ann. Mus. v. 266, t. 18, f. 8, may be a bad figure of this species. Cuvier represents the dorsal anus in the other two species, but it is not marked in this and the colouring somewhat resembles the Museum specimens'. It is apparent that the taxon to which Gray was referring as typical of his genus *Fryeria* was *Phyllidia pustulosa* Rüppell & Leuckart, 1830 or 1831 and not *Phyllidia pustulosa* Cuvier, 1804. That Gray had Rüppell & Leuckart's specimens available to him is apparent from Bergh (1875). In giving a full anatomical account of specimens he considered to have been collected by Rüppell and to be those referred to and examined by Gray, Bergh (1875, p. 663) wrote: 'In vain I have searched for an opportunity to examine this form (*Fryeria pustulosa*) in the Senckenberg Museum. Gray permitted me to do so (1873) in

the British Museum. . . Although Rüppell's figure does not readily agree with the animals that I examined the identity . . . cannot be doubted, because according to Gray these specimens originally came from Rüppell himself. [They have] the label *Fryeria pustulosa*. Cosseir. Mr Warwick's Collection.' (Translated from German).

4. It is significant that Gray listed only one species in his new genus *Fryeria*. The first paragraph [see above] after the genus description began: '1. *Fryeria pustulosa* . . . *Phyllidia pustulosa*, Rüppell . . .' The next paragraph, beginning '*Phyllidia pustulosa* Cuvier, Ann. Mus. v. 266, t.18, f. 8, may be a bad figure of this species', was not numbered '2'. In contrast, the three species listed under the genus *Phyllidia* were each prefixed by a number 1, 2 or 3. It is clear that Gray considered that in his genus *Fryeria* there was only one species, which he called *pustulosa* Rüppell. As Gray included only one taxonomic species, *pustulosa* Rüppell & Leuckart, it should be the type species of *Fryeria* by indication (type by monotypy) 'regardless of any cited synonyms, subspecies, or unavailable names, and regardless of nominal species-group taxa doubtfully included or identified' (Article 68(d) of the Code).

5. It follows from Article 11(i) (Deliberate use of misidentification) that the valid name for the type species of *Fryeria* is *Fryeria pustulosa* Gray, 1853, not *Phyllidia pustulosa* Rüppell & Leuckart (on which taxon it was based) or *Phyllidia pustulosa* Cuvier with which Rüppell & Leuckart misidentified their taxon.

6. The clarification of the nomenclatural situation has practical application only if the species described by Rüppell & Leuckart and by Cuvier are identifiable, or at least distinguishable from each other.

(a) The species described by Cuvier from a preserved animal is dark with pale, rounded, irregularly placed tubercles. It was one of three species described by Cuvier. Despite Gray's assertion that nothing was mentioned about anal position, an introductory paragraph discusses and defines the general anatomical features of *Phyllidia*, including ' . . . l'anus placé par consequent aussi comme dans les *doris* . . . ' from which it can be assumed that *P. pustulosa* like the other two species described by Cuvier, *P. trilineata* and *P. ocellata*, has a dorsal anus. There are many subsequent references to *P. pustulosa* Cuvier. They may or may not refer to a single species but all have a dorsal anus and black rhinophores.

(b) The species described by Rüppell & Leuckart is clearly different. In the original description and colour figure, the rhinophores are yellow and the dorsum is dark blue with a yellow margin and yellow-capped whitish tubercles. No anatomical information is given by Rüppell & Leuckart. However, Bergh (1875) gave a full anatomical account of specimens he considered to have been collected by Rüppell and examined by Gray.

It is clear that both species are quite different and identifiable.

7. Bergh noted that two genera of the PHYLLIDIIDAE had a species with the same specific name *pustulosa*. Because of this, Bergh (1869, p. 514) introduced the name *Fryeria rüppelii* as a replacement name for both *Phyllidia pustulosa* Rüppell & Leuckart and *Fryeria pustulosa* Gray to distinguish that taxon from *Phyllidia pustulosa* Cuvier. This replacement name has no validity under the Code but nevertheless has received wide acceptance in the literature.

8. O'Donoghue (1929, p. 732) erroneously stated that the type of *Fryeria* is *Phyllidia pustulosa* Cuvier by monotypy. Yonow (1986, p. 1418) introduced an unnecessary replacement name *Reyfriedia* (type species *Reyfriedia rüppelii* (Bergh, 1869)) for *Fryeria*. She accepted that Gray introduced a new genus *Fryeria* for Rüppell & Leuckart's taxon

but erroneously considered that Gray designated *P. pustulosa* Cuvier as the type species.

9. As stated above, the valid name of the type species of *Fryeria* is *Fryeria pustulosa* Gray, but this name has to the best of our knowledge never been used in the literature. With the exception of O'Donoghue (1929) and Yonow (1986), who incorrectly consider *Phyllidia pustulosa* Cuvier to be the type of *Fryeria*, all authors have accepted the name *Fryeria rüppelii* which was proposed by Bergh (1869) as a replacement name for *Fryeria pustulosa* Gray (= *Phyllidia pustulosa* Rüppell & Leuckart). The spelling of the specific name has been inconsistent and the following variations have been used: *rüppelii*, *rüppellii*, *rüppeli*, *ruppelli*, *ruppelii* and *rueppelli*. Bergh (1869) spelt the name *rüppelii*, and this name must be corrected to *rueppelii* (Article 32(d)(i)(2) of the Code). The species *rüppelii* is named after Rüppell, whom Bergh consistently spelt as 'Rüppel' in his 1869 paper. It would not be acceptable to amend the name *rüppelii* to *rüppellii* since the Code limits an incorrect original spelling to a case where 'there is in the original publication itself, without recourse to any external source of information, clear evidence of an inadvertent error' (Article 32(c) (ii) of the Code).

10. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers:
 - (a) to suppress the specific name *pustulosa* Gray, 1853, as published in the binomen *Fryeria pustulosa*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) to set aside all fixations of type species for the nominal genus *Fryeria* Gray, 1853 and to designate *Fryeria rueppelii* Bergh, 1869 as the type species;
- (2) to place on the Official List of Generic Names in Zoology the name *Fryeria* Gray, 1853 (gender: feminine), type species, by designation in (1) (b) above, *Fryeria rueppelii* Bergh, 1869;
- (3) to place on the Official List of Specific Names in Zoology the name *rueppelii* Bergh, 1869, as published in the binomen *Fryeria rüppelii* (specific name of the type species of *Fryeria* Gray, 1853);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Reyfria* Yonow, 1986 (a junior objective synonym of *Fryeria* Gray, 1853);
- (5) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the names:
 - (a) *pustulosa* Gray, 1853, as published in the binomen *Fryeria pustulosa* and as suppressed in (1) (a) above;
 - (b) *rüppelii* Bergh, 1869, as published in the binomen *Fryeria rüppelii* (an incorrect original spelling of *rueppelii* Bergh, 1869).

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Case 2662

***Aphonopelma* Pocock, 1901 (Arachnida, Araneae): proposed precedence over *Rhechostica* Simon, 1892**

H. W. Levi

Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts 02138, U.S.A.

O. Kraus

Zoologisches Institut und Museum, Martin-Luther-King-Platz 3, Universität Hamburg, D-2000 Hamburg 13, Fed. Rep. Germany

Abstract. The purpose of this application is the conservation of the generic name *Aphonopelma* Pocock, 1901, a widely used name of large American theraphosid spiders, whose species are commonly used as experimental animals and are also sold in pet stores. The name is threatened by an essentially unused senior subjective synonym, *Rhechostica* Simon, 1892.

1. In 1892 Simon proposed the genus *Rhechostica* (1892b, p. 162) with the type species by monotypy *Homoeomma texense* Simon, 1892 (1892a, p. 320).

2. Pocock (1901, p. 553) proposed the genus *Aphonopelma* with type species by original designation *Eurypelma seemanni* F. O. Pickard-Cambridge, 1897 (p. 26) from Costa Rica. Raven (1985, p. 149), who stated 'types examined', synonymized the genera *Aphonopelma* and *Rhechostica*. It is worth noting that Raven also placed six other nominal genera into subjective synonymy with *Rhechostica* in the same work; three of these (*Chaunopelma*, *Clavopelma*, and *Gosipelma*) date from Chamberlin, 1940; two (*Dugesella* and *Pterinopelma*) from Pocock, 1901; and *Delopelma* from Petrunkevitch, 1939.

3. The name *Aphonopelma* is widely used in books on American spiders: Baerg (1958, pp. 43, 56, 57, 62 and others); Levi & Levi (1968, p. 21); Gertsch (1979, pp. 43, 233, 234 and 249); Kaston (1978, p. 67); and Roth (1986, unpaginated). Also, species assigned to the genus are used in experimental zoology. A computer search through journals published during the last 17 years revealed more than 40 papers using the name. Bonnet (1955, pp. 356–357) lists three species in the genus up to 1939, and Brignoli's Catalog (1983, p. 134) lists the names of 15 species of *Aphonopelma* described since 1939. The name *Aphonopelma* is also widely used in the pet trade and in books on pets (Schmidt, 1986, pp. 48, 49; Smith, 1986, pp. 44–49). The Secretariat holds a list of eight general books, eight additional uses in journals not found by the computer search, and four books on pets in which the name *Aphonopelma* is used.

4. *Rhechostica* has only been cited in Schmidt (1986, pp. 48, 51), the catalogs of Bonnet (1958, p. 3855) and Roewer (1942, p. 245), and is listed in Comstock (1940, pp. 240, 241). It has never been used in any primary zoological literature, and only Raven (1985, p. 149) has adopted it as a valid name.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to give precedence to the name *Aphonopelma* Pocock, 1901 over the name *Rhechostica* Simon, 1892, whenever the two are considered to be synonyms;
- (2) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Aphonopelma* Pocock, 1901 (gender: neuter), type species by original designation *Eurypelma seemanni* F. O. Pickard-Cambridge, 1897, with the endorsement that it is to be given precedence over *Rhechostica* Simon, 1892 whenever the two names are considered to be synonyms;
 - (b) *Rhechostica* Simon, 1892 (gender: feminine), type species by monotypy *Homoeomma texense* Simon, 1892, with the endorsement that it is not to be given priority over *Aphonopelma* Pocock, 1901 whenever the two names are considered to be synonyms;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *seemanni* F. O. Pickard-Cambridge, 1897, as published in the binomen *Eurypelma seemanni* (specific name of the type species of *Aphonopelma* Pocock, 1901);
 - (b) *texense* Simon, 1892, as published in the binomen *Homoeomma texense* (specific name of the type species of *Rhechostica* Simon, 1892).

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Case 2696

***Ixodes angustus* Neumann, 1899 and *I. woodi* Bishop, 1911 (Arachnida, Acari): proposed conservation by the replacement of the holotype of *I. angustus* by a neotype**

Richard G. Robbins & James E. Keirans

Department of Health and Human Services, Public Health Service, National Institutes of Health, National Institute of Allergy and Infectious Diseases, c/o Department of Entomology, Museum Support Center, Smithsonian Institution, Washington, D.C. 20560, U.S.A.

Abstract. The purpose of this application is to conserve the name *Ixodes angustus* Neumann, 1899 in its accustomed usage for a tick suspected of transmitting disease in man, by replacement of the holotype by a neotype. This will also conserve the name *Ixodes woodi* Bishop, 1911.

1. Neumann (1899, p. 136) described and named the tick *Ixodes angustus* on the basis of a single damaged specimen now in the U.S. National Parasite Collection, Beltsville, Maryland (NPC 2419, RML 119017).

2. Later, Bishop (1911, p. 205) described what he believed was a variety of *Ixodes angustus* under the name *Ixodes angustus woodi* nov. var.

3. Cooley & Kohls (1945, p. 163) elevated Bishop's *Ixodes angustus* var. *woodi* to specific rank as *Ixodes woodi*, a change that has been accepted by tick taxonomists worldwide, e.g. Filippova, 1977 (p. 121); Keirans & Clifford, 1978 (p. 136); Wilson, 1958 (p. 23). In the same publication, it was reported (p. 71) that the senior author (Cooley) had examined Neumann's type of *I. angustus*, but this specimen was not identified as *I. woodi*.

4. The present writers are the first since Cooley to have examined Neumann's type of *Ixodes angustus*. Despite the poor condition of this specimen, it definitely is *Ixodes woodi*. In all life history stages, a number of prominent morphological differences separate *I. angustus* of authors from *I. woodi*.

5. However, tick taxonomists throughout the world (e.g. Filippova, 1977 (p. 133); Yamaguti, Tipton, Keegan & Toshioka, 1971 (p. 115)) have consistently applied the name *Ixodes angustus* Neumann, 1899 to a particular taxon of species rank that parasitizes a broad range of cricetid and arvicolid rodents and other small mammals in Japan, eastern Siberia, and much of North America.

6. Since Neumann's original description, the name *Ixodes angustus* has been used consistently by acarologists, entomologists, parasitologists and health professionals in the Eastern and Western Hemispheres. Examination of the tick literature reveals that this name has appeared in at least 130 papers published in at least five languages. In addition to those cited above, the following major papers use the name *Ixodes angustus* Neumann in its accustomed sense: Bequaert, 1946 (p. 147); Gregson, 1956 (p. 38); Nuttall & Warburton, 1911 (p. 195); Serdyukova, 1956 (p. 43).

7. *Ixodes angustus* of authors has occasionally been reported feeding on man (Robbins, 1989, p. 291) and has been suspected of transmitting Powassan virus and the bacterium of tularemia (Artsob, Spence, Surgeoner, McCreadie, Thorsen, Th'ng & Lampotang, 1984 and McLean, Walker, MacPherson, Scholten, Ronald, Wyllie & McQueen, 1961). It would not be surprising if so common and widespread a tick were eventually to be implicated in the transmission of one or more infectious agents. Robbins (1989, p. 291) also reported the first known instance of human parasitization by *Ixodes woodi*.

8. The problem created by our certain identification of Neumann's type of *Ixodes angustus* as *Ixodes woodi* could be resolved in accordance with a strict application of the Code by accepting *Ixodes angustus* Neumann as a senior synonym of *I. woodi*, abandoning the latter name, and proposing a new specific name for *I. angustus* of authors. However, the inevitable confusion following such a change of current usage of both names *Ixodes angustus* and *I. woodi* could be avoided by suppressing the holotype of *Ixodes angustus* Neumann and conserving that name as currently used by designating a neotype. We propose as neotype the reared female specimen of *I. angustus* of authors, whose data and description follow: *I. angustus* Neumann, female reared from nymph ex nest, *Sorex* sp. U.S.A.: Montana, Missoula County, Pattee Canyon (46-49N, 113-58W), 28 April 1968, A. G. Canaris. Body unengorged, length (mm) from scapular apices to posterior body margin 1.534, width at level of spiracular plate 0.901; length of capitulum from palpal apices to cornua apices 0.513, width at level of palpal insertions 0.347; palpi 0.396 long, 0.133 wide; hypostome not on a median extension of basis capituli, apex pointed, dental formula 3/3, length of toothed portion 0.251, denticles sharp, those in lateral and median files about equal in size, lateral denticles flaring; scutum 0.909 long, 0.689 wide, scapulae short and sharp, lateral carinae present but not prominent, punctations small, evenly distributed; tarsus I 0.374 long, 0.104 wide. Specimen deposited in the U.S. National Tick Collection, Department of Entomology, Museum Support Center, Smithsonian Institution, as RML 49479.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers:
 - (a) to suppress the type status of the holotype of *Ixodes angustus* Neumann, 1899;
 - (b) to designate as neotype of *Ixodes angustus* Neumann, 1899 the specimen proposed as neotype in para. 8 above;
- (2) to place on the Official List of Specific Names in Zoology the names:
 - (a) *angustus* Neumann, 1899, as published in the binomen *Ixodes angustus* and as defined by the neotype designated in (1) (b) above;
 - (b) *woodi* Bishopp, 1911, as published in the trinomen *Ixodes angustus* var. *woodi*.

10. This application has been reviewed, edited and approved for publication by the National Institute of Allergy and Infectious Diseases. We thank Curtis W. Sabrosky for assistance with an earlier draft of this paper.

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Case 2672***Castiarina* Gory & Laporte, 1837 (Insecta, Coleoptera): proposed conservation**

J. A. Gardner

Waite Agricultural Research Institute, Glen Osmond, South Australia 5064, Australia

Abstract. The purpose of this application is the conservation of the buprestid (jewel beetle) name *Castiarina* Gory & Laporte, 1837, by the suppression of the unused senior subjective synonym *Polychroma* Dejean, 1836.

1. In 1836 Dejean introduced the generic name *Polychroma* (p. 89) by listing it in his *Catalogue des Coléoptères* and including under it ten species names (for nine nominal species). The genus was unaccompanied by any diagnosis, description or illustration but, since some of the included nominal species can be identified (by citation of their authors) it meets the requirements of availability under Article 12b(5) of the Code.

2. The name *Castiarina* Gory & Laporte, 1837 (p. 22) was established as a division of the genus *Stigmodera* Eschscholtz, 1829. Gory & Laporte provided a description of *Castiarina* and described and illustrated 35 species, including some of those Dejean had placed in *Polychroma*, but no type species was designated.

3. Mannerheim (1837, pp. 98, 99) described a new species of *Polychroma* (*P. septemmaculata*).

4. Imhoff (1856, p. 47) followed Gory & Laporte and listed *Castiarina* as a subgenus of *Stigmodera*; he cited *Polychroma* Dejean as a closely related genus.

5. Lacordaire (1857, p. 60) referred to a group of *Stigmodera* species as representing the *Castiarina* of Gory & Laporte or the *Polychroma* of Dejean. He thereby synonymised the subgenera *Castiarina* and *Polychroma* but did not indicate which name had priority.

6. Obenberger (1934, p. 678) cited both *Polychroma* and *Castiarina* as synonyms of *Stigmodera*, but in the species list which followed he assigned each species to the subgenus *Stigmodera* (s.s.), *Themognatha* or *Castiarina* only. The name *Polychroma* was not used, and the species originally listed under *Polychroma* by Dejean were referred to *Castiarina*.

7. The name *Castiarina* has been used by all authors dealing with the subgenera of *Stigmodera* since Lacordaire (1857), including Kerremans (1903, pp. 204, 206–214); Taschenberg in Heyne & Taschenberg (1907, p. 141); Carter (1931, pp. 349–367); Deuquet (1964, pp. 128–130); Obenberger (1933, pp. 68–76, 104–112); Barker (1979, pp. 1–23; 1986, pp. 1–36); Bellamy (1986, p. 596). A further list of references has been given to the Commission Secretariat.

8. Barker (1979, p. 1) designated *Stigmodera pertii* Gory & Laporte, 1837 (p. 23) as the type species of *Castiarina* (the name *S. pertii* first appeared in [Hope, 1836, p. 5], but Opinion 234 (1954) ruled that work to be unavailable as not properly published). No type species has ever been designated for *Polychroma*.

9. Gardner (in press) discussed the authorship and date of Gory & Laporte, 1837, and also the status of the higher categories based on phylogenetic studies of the tribe STIGMODERINI.

10. To apply the Principle of Priority would disturb a stable and universally accepted name in favour of one which has not been used for more than 130 years.

11. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the generic name *Polychroma* Dejean, 1836 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Generic Names in Zoology the name *Castiarina* Gory & Laporte, 1837 (gender: feminine), type species *Stigmodera pertii* Gory & Laporte, 1837 by designation by Barker (1979);
- (3) to place on the Official List of Specific Names in Zoology the name *pertii* Gory & Laporte, 1837, as published in the binomen *Stigmodera pertii* (specific name of the type species of *Castiarina* Gory & Laporte, 1837);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Polychroma* Dejean, 1836, as suppressed in (1) above.

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Case 2690

***Helophorus brevipalpis* Bedel, 1881 (Insecta, Coleoptera): proposed precedence over *Helophorus creticus* Kiesenwetter, 1858**

R. B. Angus

Department of Biology, Royal Holloway and Bedford New College, Egham, Surrey TW20 0EX, U.K.

Abstract. The purpose of this application is to give precedence to the name *Helophorus brevipalpis* Bedel, 1881 for one of the commonest water beetles in Europe, known also from the Pleistocene, over the senior subjective synonym *Helophorus creticus* Kiesenwetter, 1858.

1. Kiesenwetter (1858, p. 40) described a water beetle *Helophorus creticus* in Kraatz's work on the Coleoptera of Greece.

2. Bedel (1881, p. 301), in his key to the *Helophorus* species occurring in the Seine basin, described *Helophorus brevipalpis*, a name currently used for one of the commonest water beetles in Europe.

3. Knisch (1924, p. 79) listed four references to *H. creticus*, the most recent being 1919. He placed *H. creticus* as a subspecies of *brevipalpis*, rather than *brevipalpis* as a subspecies of *creticus*, presumably in deference to the wide use of the name *brevipalpis*. I know of no subsequent use of *H. creticus* as the valid name of a beetle.

4. A. d'Orchymont (1927, p. 232) placed *H. brevipalpis* as a subspecies of *H. guttulus* Motschulsky, 1860. Zaitzev (1946, p. 255) showed that this was a misidentification of *H. guttulus*, and that the species regarded by d'Orchymont as *H. guttulus* was *H. montenegrinus* Kuwert, 1885.

5. Smetana (1985, p. 59) listed a number of synonyms of *H. brevipalpis*, but stated that he had not studied the original material of these synonyms and had simply accepted the synonymy established by previous authors. Three of these synonyms predate the establishment of *H. brevipalpis* and are recorded by Smetana thus:

Helophorus aquaticus Duftschmid, 1805 (ex parte, nec Linné, 1758)

Helophorus granularis C. G. Thomson, 1853 (nec Linné, 1761)

Helophorus griseus Seidlitz, 1872 (nec Herbst, 1793).

These three names are not junior homonyms of the names by Linnaeus or Herbst, but misidentifications of those names. As such they do not affect the priority of *H. brevipalpis*.

6. Angus (1985, p. 722) designated lectotypes for *H. brevipalpis* and *H. creticus*, and showed that they refer to the same species. Angus (1988, p. 216) analysed regional variations shown by *H. brevipalpis*. He showed that, while material from Lebanon, south eastern Anatolia (Turkey) and eastern Iran appeared to represent a distinct subspecies, variation between European populations was too slight to justify the recognition of further subspecies. He further showed (Angus, 1988, p. 226) that the types of

both *H. brevipalpis* and *H. creticus* belong to populations which resemble one another within the spectrum of variation shown by European material.

7. It is thus clear that *H. brevipalpis* and *H. creticus* refer to the same very distinct species and, indeed, to the same infra-specific form of that species. The name *H. brevipalpis* has been used as a valid name in numerous systematic and ecological works, and also in studies of Pleistocene fossils, such as Balfour-Browne (1958, p. 115), Bellstedt & Fichtner (1985, p. 254) and Coope (1979, p. 256); a list of 7 other papers is held by the Secretariat. As stated in para. 3 above, I am unaware of the use of the name *H. creticus* for a valid species since 1924. A change of name from *brevipalpis* to the unused *creticus* would cause confusion and would not be in the interests of stability of nomenclature. However, it is possible that subsequent workers, particularly those using cytological or biochemical techniques, may demonstrate the existence of more than one taxon. For this reason it would not be appropriate to suppress the name *creticus* outright as it may eventually prove to represent a taxon distinct from *brevipalpis*.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *brevipalpis* Bedel, 1881, as published in the binomen *Helophorus brevipalpis*, is to be given precedence over the specific name *creticus* Kiesenwetter, 1858, as published in the binomen *Helophorus creticus*, whenever the two names are considered to be synonyms;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *brevipalpis* Bedel, 1881, as published in the binomen *Helophorus brevipalpis*, with the endorsement that it is to be given precedence over *creticus* Kiesenwetter, 1858, as published in the binomen *Helophorus creticus*, whenever the two names are considered to be synonyms;
 - (b) *creticus* Kiesenwetter, 1858, as published in the binomen *Helophorus creticus*, with the endorsement that it is not to be given priority over *brevipalpis* Bedel, 1881, as published in the binomen *Helophorus brevipalpis*, whenever the two names are considered to be synonyms.

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Case 2689***Helophorus obscurellus* Poppius, 1907 (Insecta, Coleoptera): proposed precedence over *Helophorus fausti* Kuwert, 1887**

R. B. Angus

Department of Biology, Royal Holloway and Bedford New College, Egham, Surrey TW20 0EX, U.K.

Abstract. The purpose of this application is to give precedence to the name *Helophorus obscurellus* Poppius, 1907 for a beetle with a wide distribution in the Palaearctic, and known from the Pleistocene, over the senior subjective synonym *Helophorus fausti* Kuwert, 1887.

1. Kuwert (1887, p. 165) described a beetle *Helophorus fausti* from Turkestan. It is included in Kuwert's keys to European *Helophorus* (Kuwert, 1890, p. 186), but Knisch (1924, p. 67) gives no subsequent reference to it. Apart from Kuwert's own material in the Musée National d'Histoire Naturelle, Paris, the only correctly named specimens I have seen are in the Reitter collection in the Hungarian National Museum, Budapest. A series standing as *H. fausti* in the Zoological Institute of the U.S.S.R. Academy of Sciences, Leningrad, is a different species, described as *H. beibienkoi* by Angus (1984, p. 539). I know of no other reference to *H. fausti*.

2. Poppius (1907, p. 3) described *Helophorus* (*Trichelophorus*) *obscurellus* from northern Russia (Kanin) and Siberia (Zhigansk, on the river Lena). Knisch (1924, p. 69) gave no subsequent references to *H. obscurellus*.

3. A. d'Orchymont (1927, p. 103) described a supposedly extinct species, *Helophorus wandereri*, from Pleistocene fossil material and placed it in a new subgenus, *Orphelophorus* d'Orchymont. Coope & Sands (1963, p. 94) showed that *H. wandereri* occurred in the British Pleistocene, and showed how it could be identified.

4. Angus (1970, p. 9) designated a lectotype for *H. obscurellus* in the Zoological Museum of Helsinki University; he also (p. 11) showed that *H. wandereri* is conspecific with *H. obscurellus* and gave details of the modern distribution of the species. Subsequently, *H. obscurellus* has been found in many Pleistocene deposits in Britain and elsewhere and has been shown to be a good indicator of tundra environments. This environmental information, and the ease with which *H. obscurellus* can be identified as a fossil, make it a particularly important component of Pleistocene fossil assemblages.

5. Angus (1984, p. 537) showed that *H. fausti* was conspecific with *H. obscurellus* and designated a lectotype for *H. fausti*. He recommended that, in view of the importance of *H. obscurellus* in Pleistocene assemblages, *H. obscurellus* should continue to be the name used with *H. fausti* placed in synonymy as a nomen oblitum (a forgotten name).

6. Sharp (1916, p. 85) described a different species as *H. fausti* Sharp, overlooking Kuwert's prior use of that name. Angus (1971, p. 245) showed that *H. fausti* Sharp is a junior synonym of *H. croaticus* Kuwert, 1886 and designated lectotypes for both nominal species.

7. The name *H. obscurellus* has been used in many papers including Coope (1979, p. 255), Morgan (1969, p. 112) and Smetana (1985, p. 116); a list of 7 other papers is held by the Secretariat. As stated in para. 1 above, I am unaware of the use of the name *H. fausti* as a valid species since 1924. A change of name from *obscurellus* to the unused *fausti* would cause confusion and would not be in the interests of stability of nomenclature. However, *H. obscurellus* has a wide and fragmented distribution in the Palaearctic and it is possible that sibling species are involved. For this reason it would not be appropriate to suppress the name *fausti* outright as it may eventually prove to represent a taxon distinct from *obscurellus*.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *obscurellus* Poppius, 1907, as published in the binomen *Helophorus* (*Trichelophorus*) *obscurellus*, is to be given precedence over the specific name *fausti* Kuwert, 1887, as published in the binomen *Helophorus fausti*, whenever the two names are considered to be synonyms;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *obscurellus* Poppius, 1907, as published in the binomen *Helophorus* (*Trichelophorus*) *obscurellus*, with the endorsement that it is to be given precedence over *fausti* Kuwert, 1887, as published in the binomen *Helophorus fausti*, whenever the two names are considered to be synonyms;
 - (b) *fausti* Kuwert, 1887, as published in the binomen *Helophorus fausti*, with the endorsement that it is not to be given priority over *obscurellus* Poppius, 1907, as published in the binomen *Helophorus* (*Trichelophorus*) *obscurellus*, whenever the two names are considered to be synonyms.

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Case 2716

***Ceratopogon puncticollis* Becker, 1903 (currently *Culicoides puncticollis*; Insecta, Diptera): proposed precedence over *Ceratopogon algecirensis* Strobl, 1900**

J. Boorman

Department of Entomology, British Museum (Natural History), London SW7 5BD, U.K.

Abstract. The purpose of this application is to give precedence to the specific name *Ceratopogon puncticollis* Becker, 1903 of a biting midge over the senior synonym *Ceratopogon algecirensis* Strobl, 1900.

1. Strobl (1900, p.170) described *Ceratopogon pulicaris* forma *algecirensis* on the basis of two females from Algeciras, Spain. Later (Strobl, 1906, p. 398) he promoted *algecirensis* to specific rank and recorded a further two females from the same locality, with other specimens of both sexes from other localities in Spain. The species was transferred to *Culicoides* Latreille, 1809 by Kieffer (1919, p. 39).

2. Becker (1903, p. 75) named a female insect from Egypt *Ceratopogon puncticollis*. This species was transferred to the genus *Culicoides* by Edwards (1939, p. 133), who listed the names he considered to be synonyms, including *algecirensis*. He did not accord priority to *algecirensis*, possibly because its original usage was as a form of *Ceratopogon pulicaris*, and treated the junior synonym *puncticollis* as a valid name.

3. Szadziewski (1986, p. 70) was unable to locate the type specimens of *algecirensis* and inferred that they no longer existed. However, he did locate in the Zoologisches Museum, Berlin, the two additional females from Algeciras mentioned by Strobl (1906). Szadziewski designated one of these females as the neotype of *algecirensis* and relegated *puncticollis* to the status of a junior synonym of *algecirensis*. Bearing in mind the wide geographical range of the species from the U.K. to Spain and eastwards to the Middle East, it is possible that, when cytological or other techniques are applied to *Culicoides puncticollis*, the existence of more than one species may be demonstrated. For this reason it would not be appropriate to suppress the name *algecirensis* outright as it may eventually prove to represent a species distinct from *puncticollis*.

4. The binomen *Culicoides puncticollis* has been widely used since 1939 in the medical and veterinary entomological literature. It is a species closely associated with live-stock and a potential vector of viruses and filariae. It is readily identified and is not involved in any taxonomic problem. With the sole exception of the 1986 paper by Szadziewski, *puncticollis* is the only name that has been used as the valid name for the species in numerous papers over the last 50 years. Such papers include Campbell & Pelham-Clinton (1960, p. 234), Khalaf (1961, p. 468) and Kremer, Braverman & Delecolle (1981, p. 2); a list of 23 other papers is held by the Secretariat. Any change of name would cause needless confusion and would not be in the interests of stability of nomenclature.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the specific name *puncticollis* Becker, 1903, as published in the binomen *Ceratopogon puncticollis*, is to be given precedence over the specific name *algecirensis* Strobl, 1900, as published in the trinomen *Ceratopogon pulicaris* forma *algecirensis*, whenever the two names are considered to be synonyms;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *puncticollis* Becker, 1903, as published in the binomen *Ceratopogon puncticollis*, with the endorsement that it is to be given precedence over *algecirensis* Strobl, 1900, as published in the trinomen *Ceratopogon pulicaris* forma *algecirensis*, whenever the two names are considered to be synonyms;
 - (b) *algecirensis* Strobl, 1900, as published in the trinomen *Ceratopogon pulicaris* forma *algecirensis*, with the endorsement that it is not to be given priority over *puncticollis* Becker, 1903, as published in the binomen *Ceratopogon puncticollis*, whenever the two names are considered to be synonyms.

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Case 2673

***Micropterus patachonicus* King, 1831 and *Anas pteneres* Forster, 1844 (both currently in *Tachyeres* Owen, 1875; Aves, Anseriformes): proposed conservation of the specific names**

B. C. Livezey

Museum of Natural History, University of Kansas, Lawrence, Kansas 66045, U.S.A.

Abstract. Steamer ducks are large diving ducks of southern South America, classified today in the genus *Tachyeres* Owen, 1875. There are four species, three of them flightless. Usage of the names of two of the species is threatened by the unused senior name *Oidemia patachonica* King, 1828: *T. pteneres* (Forster, 1844) as a subjective synonym and *T. patachonicus* (King, 1831) as a secondary homonym.

1. During the surveying voyages of the British ships *Adventure* and *Beagle* during 1826–30, Captain P. P. King observed steamer ducks, and an unknown number of skin specimens were collected. In February 1827, King and members of the parties aboard the two ships made an excursion to Eagle Bay, Straits of Magellan, and collected specimens of an apparently flightless species (King, 1839, p. 35).

2. In July 1827, King sent from Rio de Janeiro a selection of 78 specimens, many of which were believed to represent new species, to N. A. Vigors, Secretary of the Zoological Society of London, in advance of the return of the expedition (King, 1828a, pp. 422–423). Among these skins was a single specimen of a large duck which King thought was new and which he named (King 1828b, p. 100) as *Oidemia patachonica*.

3. The collection of specimens also contained examples of another species which were smaller and more red on the scapulae and throat and in 1831 (p. 14) King named it as a new species, *patachonicus*, of *Micropterus* Lesson, 1828 (p. 416). Specimens of this second species were exhibited at a meeting of the Zoological Society of London in December 1830. In 1839, King (p. 542) mentioned that this species was capable of flight, thereby starting a century-long debate concerning the existence of both flighted and flightless species of steamer duck (see Cunningham, 1871, p. 493; Lowe, 1934). The species is currently known as *Tachyeres patachonicus* (*Tachyeres* Owen, 1875, p. 254, is the replacement name for *Micropterus* Lesson, 1828, preoccupied by the fish name *Micropterus* Lacépède, 1802). *T. patachonicus* King, 1831 is a junior secondary homonym of *Oidemia patachonica* King, 1828, which is also now placed in *Tachyeres*.

4. Subsequently, King (1839, pp. 35 and 542) concluded that the specimen he had named *Oidemia patachonica* corresponded closely with a flightless duck described from the voyage of the French vessel *Uranie* by Quoy & Gaimard in 1824 (p. 139) under the name *Anas brachyptera* Latham, 1790 (p. 834) (later placed in the genus *Micropterus*). King indicated the synonymy of his species with *M. brachypterus* (as then understood) and this was noted by Strickland (1841, p. 39) and Gibson (1877, p. 185). Eventually,

brachypterus was restricted by Murphy (1936, p. 954) to the flightless species endemic to the Falkland Islands, King's Magellanic species being separated as *Anas* (now *Tachyeres*) *pteneres* (Forster, 1844, p. 338). *T. pteneres* is the name in use today, although *O. patachonica* is the older synonym.

5. I recently examined the extant specimens from the original collection of King in the National Museums of Scotland (NMSZ 1926.109.111) and the British Museum (Natural History) (BMNH Old Vellum Catalogue No. 42-73b), which have been regarded as "co-types" of *Oidemia patachonica* (Stenhouse, 1929, p. 185; 1930, p. 274 (where the catalogue number of the former specimen is incorrectly cited as 1926.109.90 (R. McGowan, pers. comm.)); Warren, 1966, p. 221; Warren & Harrison, 1973, p. 5) and determined that both are of the Magellanic flightless species (inferred earlier for the former by Gibson, 1877, p. 185). No original material of the flighted species collected by King is known to exist.

6. Since King's 1839 publication the specific name *patachonicus* King, 1831 has been used to refer to the flighted species in over 200 ornithological works spanning 150 years, and in papers by both proponents and opponents of according species status to the flighted form; these include Murphy (1936, p. 968), Meyer de Schauensee (1970, p. 33) and Livezey & Humphrey (1986, p. 540). A representative list of a further five references is held by the Commission Secretariat. The only possible exception to the usage of *patachonicus* was the parenthetical suggestion of the alternate name *Micropterus macropterus* by Giglioli (1875, p. 934) for the flighted species; this was an informal, descriptive proposal without nomenclatural justification and Giglioli otherwise used *patachonicus* and cited only King's second paper (1831) in reference to the flighted form.

7. The fact that the name *patachonicus* was used by King for different species in 1828 and 1831 appears to have been overlooked by all but Stenhouse (1929, p. 185), who also mentioned the possible availability of the name suggested by Giglioli. There is variation, however, in the reference given for the name as used in its current (1831) sense; for example Murphy (1936, p. 968) and Delacour (1954, p. 276) both credit King, 1830 (sic, for 1831), whereas Weller (1976, p. 45) and Johnsgard (1979, p. 453) refer to King, 1828.

8. In order to maintain the usage of *Tachyeres patachonicus* in its accustomed (King, 1831) sense for the flighted species of steamer duck, I propose the suppression of *Oidemia patachonica* King, 1828 as a senior secondary homonym of *Micropterus patachonicus* King, 1831 and as a senior subjective synonym of *Anas pteneres* Forster, 1844.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the specific name *patachonica* King, 1828, as published in the binomen *Oidemia patachonica*, and all other uses of the name prior to the publication of *patachonicus* King, 1831, in the binomen *Micropterus patachonicus*, for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *pteneres* Forster, 1844, as published in the binomen *Anas pteneres*;
 - (b) *patachonicus* King, 1831, as published in the binomen *Micropterus patachonicus*;

- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *patachonica* King, 1828, as published in the binomen *Oidemia patachonica*, and as suppressed in (1) above.

Acknowledgements

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Use versus priority in zoological nomenclature: a contribution to the discussion
(see BZN 44: 79–85; 45: 45–46, 144, 145)

R. V. Melville

93 Lock Road, Ham, Richmond, Surrey TW10 7LL, U.K.

The age-old conflict between usage and priority in zoological nomenclature has been conducted as a series of assaults on the Principle of Priority by the proponents of usage. Yet priority still stands as the central first principle in our Code and it is hard to see what can replace it that will be as easily understood and as equitable. Some landmarks in this struggle stand out clearly: the plenary powers resolution of 1913, which empowered the Commission to set aside the Principle of Priority in individual cases; the repeated but doomed attempts to draft satisfactory limitation of the Principle, culminating in the Monaco (1972) redrafting of Article 23b (which had rejected as *nomina oblita* names unused for 50 years) and the present text of that provision and Article 79c; and now Cornelius's proposal (BZN 44: 79–85) for Protected Works. This is a bold and wide-reaching proposal and deserves careful consideration.

Key (1988; BZN 45: 45–46) has pointed out the delay inherent in the process of incorporating a provision on Protected Works into the Code and has drawn attention to the positive elements in Article 79 that facilitate conservation without the associated suppression of one or more senior names. This is a helpful suggestion and I hope it will be practically tested without delay. If a list of names to be directly conserved was published, the extent of agreement or disagreement on its contents would quickly appear. The Commission would have to lay down the criteria to be satisfied by any name on such a list; each would have to be accompanied by its original reference and by a statement of its name-bearing type and how this was fixed, with any relevant references.

My own experience with works that might well be thought to qualify for protection gives me some misgivings. I can think of two in the Echinoidea: *Essai de nomenclature raisonnée des Echinides* by Lambert & Thiéry (1909–1924); and Th. Mortensen's splendid *Monograph of the Echinoidea* (1928–1951). Lambert & Thiéry is a very useful compendium of all echinoid names published to that date and has a very complete bibliography, but the one thing that is not reasoned about it is its nomenclature, especially in the family group. Mortensen, although a fierce defender of usage, thought fit to use a number of pre-Linnaean generic names from polynominal works that had not been used as valid names for many decades (except by an occasional eccentric French author). Thus, even if Mortensen was proposed for protection, much detailed work would need to be done to cull such weeds from it.

The example of L. B. Holthuis shows that nomenclatural probity need not necessarily hinder an active career as a taxonomist. Why can this example not be followed, especially by workers in major museums with access to major libraries?

Lastly, I have misgivings as to durability of Protected Works for taxonomic relevance. Olson (1987) has analysed 276 name changes in North American birds between 1957 and 1983. Of these, 259 were made for systematic reasons and only 17 for nomenclatural reasons. Of the latter, three arose from secondary homonymies arising from generic mergers (i.e. from taxonomic actions) and only two arose directly from the application of the Principle of Priority. Olson points out that in North American birds — a group

considered to be especially thoroughly known and to have an exceptionally stable nomenclature — the nomenclature of 50 years ago would be all but impenetrable now to any but a specialist.

In spite of my misgivings, I hope that a serious test case for a Protected Work will be prepared. I suspect that the labour of preparing it may be greater, and the durability of its protection less, than its promoters would hope.

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Comment on the proposed conservation of *Harmothoe imbricata* (Linnaeus, 1767) and *Pholoe minuta* (Fabricius, 1780) (Annelida, Polychaeta)
(Case 2452; see BZN **46**: 22–24)

Marion H. Pettibone

National Museum of Natural History, Smithsonian Institution, Washington, D.C.
20560, U.S.A.

Chambers and Heppell have made a very good case for conserving the polychaete names *Harmothoe imbricata* (Linnaeus, 1767) and *Pholoe minuta* (Fabricius, 1780). Both names have been widely used and it would cause great confusion if they were to be replaced.

Comment on the proposed designation of *Risomurex mosquitensis* Kemperman & Coomans, 1984 as the type species of *Risomurex* Olsson & McGinty, 1958 (Mollusca, Gastropoda)

(Case 2507; see BZN 43: 191–192)

Emily H. Vokes

Department of Geology, Tulane University, New Orleans, Louisiana 70118, U.S.A.

Roland Houart

Landen, Belgium

We oppose this application by Kemperman & Coomans. Almost simultaneously with the then pending application (which we mentioned), we (Vokes & Houart, 1986) published a revision of the subgenus *Risomurex*. In this we pointed out (pp. 64, 66–68) that *R. mosquitensis* Kemperman & Coomans, 1984 is a junior subjective synonym of *Ricinula deformis* Reeve, 1846 (pl. 6, fig. 44) and of *Sistrum ferrugineum rubidum* Dall, 1889; this is the taxon which was misidentified by Olsson & McGinty (1958) as *Engina schrammi* Crosse, 1863 when designating the type species of *Risomurex*. We noted (p. 76) also that *E. schrammi* is known only from the holotype, which is apparently a specimen of *Ricinula rosea* Reeve, 1846 (pl. 6, fig. 46).

We consider that the designation of *R. mosquitensis* as the type species of *Risomurex*, as proposed in BZN 43: 191–192, is the least desirable of three choices. The valid name of the species which was actually before Olsson & McGinty (1958) is *Ricinula deformis* Reeve, 1846, and we propose that this be designated by the Commission as the type species of *Risomurex*, by appropriate alterations to the proposals on BZN 43: 191–192.

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Comments on the proposed conservation of *Drepanites* Mojsisovics, 1893 and *Hyphoplites* Spath, 1922 (Mollusca, Cephalopoda)

(Case 2668; see BZN 46: 19–21)

(1) C. W. Wright

Old Rectory, Seaborough, Beaminster, Dorset DT8 3QY, U.K.

1. In this application Spamer & Bogan call for the Commission to suppress *Drepanites* Benett, 1831 in order to conserve the generic names *Drepanites* Mojsisovics, 1893 and *Hyphoplites* Spath, 1922.

2. Spamer & Bogan suggest, contrary to Wright & Wright (1949, p. 481), that Benett (1831) should be treated as an available publication. Despite what Spamer & Bogan say, the fact that names used by Benett have appeared in the literature on Porifera, Gastropoda and Bivalvia in no way affects the issue whether Benett (1831) is a publication.

3. As noted in para. 3 of the application, the introduction by Benett contains the following passage: 'When this catalogue was first thought of, my geological friends expressed a wish that it should be published separately; but considering it a thing of mere local interest, I have preferred printing a few copies only for the acceptance of my friends'. Of course copies were distributed widely — because she sent them to her friends, plenty of them (I have J. de C. Sowerby's presentation copy). This does not mean that Benett's perfectly clear statement should or could be denied, and the work therefore does not satisfy Article 8a(1) [that 'it must be issued publicly for the purpose of providing a permanent scientific record'].

4. It is absurd that the Commission should be asked, in the face of this clear statement by Miss Benett, to rule that her *A catalogue of the organic remains of the county of Wilts.* is an available work. If the Code means anything the proposals (1), (2) and (7) on BZN 46: 20 are fundamentally wrong. Proposals (3) to (6) would do no harm.

(2) P. K. Tubbs

Executive Secretary, International Commission on Zoological Nomenclature

In their application Spamer & Bogan do not claim that the Benett catalogue was incontrovertibly published, but rather ask the Commission to rule that for nomenclatural purposes it should be treated as though it had been published. This is a procedure that has been used by the Commission on a number of occasions to make available works and names that were, originally, not published within the meaning of the Code.

Despite Benett's evident pre-printing intention or expectation, it would appear that more than 'a few' copies of the catalogue may have been circulated. It was cited in Férussac (1835), *Bulletin Zoologique*; in Agassiz (1842–46), *Nomenclator Zoologicus*; in Bronn (1848), *Index Palaeontologicus*, and in Herrmannsen (1852), *Indicis Generum Malacozoorum*. The catalogue contained about 70 new names, a number of which were treated as available and valid in standard 19th century monographs. If the catalogue were simply treated as unpublished and therefore unavailable the status of these names would be doubtful, and also *Drepanites* Mojsisovics could be rendered invalid by some use of the Benett name in the period 1831–1893 (it is relevant here to note that the words '...and all uses of that name prior to the publication of *Drepanites* Mojsisovics, 1893' should be inserted in proposal (2)(a) on BZN 46: 20). Similar considerations apply to the post-Bennett names *Hyphoplites* Spath, 1922 and *pseudofalcatus* Semenow, 1899 (see BZN 46: 20, paras. 7 and 8).

In effect, Spamer & Bogan are proposing that pragmatic considerations should outweigh Miss Benett's statement of her modest plans for the distribution of her catalogue.

Comments on the proposed precedence of *Aphonopelma* Pocock, 1901 over *Rhechostica* Simon, 1892 (Arachnida, Araneae)

(Case 2662; see BZN 46: 165–166)

(1) Edwin E. Minch

2207 West Main No. 15, Mesa, Arizona 85201, U.S.A.

I share with other authors the use of the name *Aphonopelma* in the various publications that have been written on this taxon. If the name is now changed to *Rhechostica* it will become difficult for future students of the group to make the associations between the two names in the literature. I recall the difficulty I experienced when *Aphonopelma* was first generally separated from *Eurypelma* C. L. Koch, 1850. To complicate matters further, there was a considerable period of time after this proposal in which *Eurypelma* continued to be used by various authors. Failure to invoke the plenary powers would result in the creation of a second such problem for future workers.

Tarantulas seem to draw interest from researchers outside the area of systematics. Since these individuals tend to be less familiar with complex questions of nomenclature, the resulting confusion would tend to be magnified. This would have an adverse effect on information exchange between workers.

Tarantula taxonomy is in a confused state. It will be unstable under the scrutiny of any active researcher of the group. The next taxonomist could well arrive at a totally different conclusion from that given by Raven. I fear that this could result in an endless list of synonyms for many tarantula species.

For the above reasons I urge that the International Commission on Zoological Nomenclature use its plenary powers to suspend the Principle of Priority in this case based upon the lack of use for the name *Rhechostica*.

(2) Carlos E. Valerio

Escuela de Biología, Universidad de Costa Rica, San Jose, Costa Rica

I find the arguments convincing and I would like to endorse the application very strongly. The name *Aphonopelma* is widely used in this part of the world by biologists, conservationists, pet keepers and others. We would lose a great deal more than we gain if we restore the previously unused name *Rhechostica* to replace it.

(3) Frederick A. Coyle

Department of Biology, Western Carolina University, Cullowhee, North Carolina 28723, U.S.A.

I am hereby stating my support for the application to conserve the generic name *Aphonopelma* Pocock, 1901, because of its wide use, and to suppress the name *Rhechostica* Simon, 1892.

(4) Rick C. West

4034 Glanford Avenue, Victoria, B.C., Canada V8Z 3Z6

I feel it is better to include *Aphonopelma* in *Rhechostica* until further characters for differentiation are discovered. Anyone studying *Aphonopelma* can certainly make the switch. Some people are still using the older generic name *Eurypelma*! Anyone researching the genus *Aphonopelma* should also be looking under *Rhechostica* and *Eurypelma* as well.

(5) Pablo A. Goloboff

Museo Argentino de Ciencias Naturales, Buenos Aires, Argentina

The name *Aphonopelma* has had a much wider use, indeed, than the name *Rhechostica*. The conservation of the name *Aphonopelma* would be justified with regard to *Rhechostica*. However, Raven (1985) has also synonymised *Pterinopelma* Pocock, 1901 with *Rhechostica* (see para. 2 of the application). The name *Pterinopelma* has been used and several species have been described, and presumably this name also should be conserved with respect to *Rhechostica*.

Comments on the proposed conservation of *Iphinoe* Bate, 1856 (Crustacea, Cumacea)
(Case 2643; see BZN 45: 267–269)

(1) Anders Warén

Naturhistoriska Riksmuseet, Box 50007, S-10405 Stockholm, Sweden

The gastropod name *Iphinoe* H. & A. Adams, 1854 has not been used very often, even if more than the impression given by the application. Examples of recent authors are: Habe (1962, p. 69; as a genus, 4 species, 1 new); Abbott (1974, p. 138; a subgenus, 4 species); Golikov (1986; a genus, 5 species, 1 new). There has been no revisory work with evidence for keeping the name for a genus; I feel myself, after having done some work on the family, that the relevant species could well be placed in *Trichotropis* or *Ariadnaria*. In any case the replacement name *Neophinoe* Habe, 1978 has been proposed for *Iphinoe* H. & A. Adams.

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(2) Richard E. Petit

P.O. Box 30, North Myrtle Beach, South Carolina 29582, U.S.A.

It should be pointed out that the statement in BZN 45: 268, para. 6 that the dates of publication of Adams & Adams' *The Genera of Recent Mollusca* were unknown is incorrect, since p. 661 of their work tabulated the dates. Part IX, containing *Iphinoe*, was published in January 1854.

(3) Richard S. Houbbrick

Department of Invertebrate Zoology (Mollusks), National Museum of Natural History, Washington, DC 20560, U.S.A.

The name *Iphinoe* H. & A. Adams, 1854 is used for small, virtually unknown groups of trichotropid prosobranchs. It is without question an obscure name, rarely encountered in the literature. In my opinion, suppression of *Iphinoe* H. & A. Adams would in no way cause any instability in the malacological literature, nor would it upset any of my colleagues.

Comment on the proposed precedence of GRYLLACRIDOIDEA Stål, 1874 over STENOPELMATOIDEA Burmeister, 1838 (Insecta, Orthoptera)
(Case 2603; see BZN 46: 25–27)

G. W. Ramsay

Entomology Division, D.S.I.R., Private Bag, Auckland, New Zealand

I am writing to support Dr K. H. L. Key's application to give GRYLLACRIDOIDEA Stål, 1874 precedence over STENOPELMATOIDEA Burmeister, 1838 (and the same at other family-group ranks). As Dr Key shows, GRYLLACRIDOIDEA is in wide general use and to change it would cause confusion. Provisions in the Code explicitly limit the application of the Principle of Priority and should be invoked in this case.

Comment on the proposed conservation of accepted usage of *Monograptus exiguus* (Graptolithina) by the citation of Lapworth (1876) as author
(Case 2674; see BZN 46: 33–34)

Margaret Sudbury

Moor House Farm, Sandy Lodge Road, Rickmansworth, Hertfordshire WD3 1LW, U.K.

I write in support of D. K. Loydell's application regarding the type of *Monograptus exiguus*, for the following reasons:

- (a) The existence of Nicholson's type specimen is doubtful, whereas Lapworth's is known, and it is his usage which has been accepted for over 100 years. A return to Nicholson's species would cause considerable confusion in graptolite taxonomy.
 - (b) The two specimens concerned came from different horizons so that maintaining Nicholson's usage would cause difficulties and misunderstandings in world-wide stratigraphy as well.
- I hope, therefore, that the Commission will agree to Mr Loydell's application.

Comments on the authorship of the name *Testudo* (currently *Pelusios*) *subnigra* (Reptilia, Testudines)

(Opinion 1534; see BZN 46: 81–82)

(1) Roger Bour

Laboratoire des Reptiles et Amphibiens, Muséum National d'Histoire Naturelle, 25 rue Cuvier, 75005 Paris, France

In this Opinion the authorship of the specific name *subnigra* is given as 'Lacépède in Bonnaterre, 1789', on the grounds that the work in which the name first appeared, Lacépède's 1788 *Histoire naturelle des quadrupèdes ovipares et des serpents* (vol. 1), had been suppressed by the Commission in Opinion 1463 (BZN 44: 265–267). However, only vol. 2 of Lacépède's work, which has the shorter title *Histoire naturelle des serpents* (1789), was suppressed in Opinion 1463, and vol. 1 is still available. Were the name *subnigra* to be taken from Bonnaterre's *Tableau encyclopédique* the author would be Bonnaterre alone, since the text is his.

(2) P. K. Tubbs

Executive Secretary, International Commission on Zoological Nomenclature

M. Bour is correct in pointing out that Lacépède's vol. 1 of 1788 was not suppressed in Opinion 1463, contrary to the statement in BZN 46: 82. However, inspection of Lacépède (1788) shows that Lacépède did not consistently apply the principle of binominal nomenclature in this volume and that *subnigra* is not made available there. The species concerned is described on p. 175 and elsewhere as 'La Noirâtre'. The name *Testudo subnigra* does appear in the Latin 'Synopsis methodica' but even this table is not consistently binominal (for example it includes names such as 'Jackie' and 'Roquet', and adopts several Latin names different from the Linnaean ones noted in the text).

As M. Bour has mentioned, Bonnaterre's text was his alone. *Testudo subnigra* should therefore have the authorship Bonnaterre, 1789, and the entries on the Official Lists for both *subnigra* and *Pelusios* Wagler, 1830 (of which *T. subnigra* is the type species) should be correspondingly amended from those given on BZN 46: 81–82.

OPINION 1549

EUGLENIDAE Stein, 1878 (Protista, Flagellata) and EUGLENIDAE Seidlitz, 1875 (Insecta, Coleoptera): homonymy removed, and ADERIDAE Winkler, 1927 (Insecta, Coleoptera): given precedence over EUGLENESIDAE Seidlitz, 1875

Ruling

- (1) Under the plenary powers it is hereby ruled that:
 - (a) for the purposes of Article 29 of the Code the stem of the generic name *Euglenes* Westwood, 1830 is EUGLENES-;
 - (b) the family-group name ADERIDAE Winkler, 1927 is to be given precedence over the family-group name EUGLENESIDAE Seidlitz, 1875 whenever the two names are considered to be synonyms.
- (2) The following names are hereby placed on the Official List of Generic Names in Zoology:
 - (a) *Aderus* Stephens, 1829 (gender: masculine), type species by designation by Westwood (1830) *Lytta boleti* Marsham, 1802;
 - (b) *Euglena* Ehrenberg, 1830 (gender: feminine), type species by designation by Dujardin (1841) *Cercaria viridis* Müller, 1786;
 - (c) *Euglenes* Westwood, 1830 (gender: masculine), type species by designation by Pic (1900) *Anthicus oculatus* Paykull, 1798.
- (3) The following names are hereby placed on the Official List of Specific Names in Zoology:
 - (a) *boleti* Marsham, 1802, as published in the binomen *Lytta boleti* (specific name of the type species of *Aderus* Stephens, 1829);
 - (b) *viridis* Müller, 1786, as published in the binomen *Cercaria viridis* (specific name of the type species of *Euglena* Ehrenberg, 1830);
 - (c) *oculatus* Paykull, 1798, as published in the binomen *Anthicus oculatus* (specific name of the type species of *Euglenes* Westwood, 1830).
- (4) The following names are hereby placed on the Official List of Family-Group Names in Zoology:
 - (a) ADERIDAE Winkler, 1927, type genus *Aderus* Stephens, 1829, with the endorsement that it is to be given precedence over EUGLENESIDAE Seidlitz, 1875 whenever the two names are considered to be synonyms;
 - (b) EUGLENIDAE Stein, 1878, type genus *Euglena* Ehrenberg, 1830;
 - (c) EUGLENESIDAE Seidlitz, 1875 (emendation of EUGLENIDAE), type genus *Euglenes* Westwood, 1830, with the endorsement that it is not to be given priority over ADERIDAE Winkler, 1927 whenever the two names are considered to be synonyms.
- (5) The name EUGLENIDAE Seidlitz, 1875 (emended to EUGLENESIDAE in (1)(a) above) is hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology.

History of Case 2510

An application to remove the homonymy between EUGLENIDAE Stein, 1878 (Protista) and EUGLENIDAE Seidlitz, 1875 (Insecta, Coleoptera), together with the conservation of

ADERIDAE Winkler, 1927 (Insecta, Coleoptera), was received from Drs M. Mroczkowski & S. A. Slipinski (*Polska Akademia Nauk, Warszawa, Poland*) on 20 March 1985. After correspondence the case was published in BZN 44: 230–232 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 231. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion: .

ADERIDAE Winkler, 1927, *Catalogus Coleopterum regionis palearcticae*, part 7, col. 831.

Aderus Stephens, 1829, *A systematic Catalogue of British Insects*, p. 255.

boleti, Lytta, Marsham, 1802, *Coleoptera Britannica, sistens insecta Coleoptera Britanniae indigena*, p. 486.

Euglena Ehrenberg, 1830, *Annalen der Physik und Chemie*, 94 (N.F. 18): 502.

Euglenes, Westwood, 1830, *Zoological Journal*, London, 5: 59.

EUGLENESIDAE Seidlitz, 1875, *Fauna Baltica*, p. 380.

EUGLENIDAE Seidlitz, 1875, *Fauna Baltica*, p. 380.

EUGLENIDAE Stein, 1878, *Der Organismus der Infusionsthier*, vol. 3(1), p. x.

oculatus, Anthicus, Paykull, 1798, *Fauna Svecica*, vol. 1, p. 256.

viridis, Cercaria, Müller, 1786, *Animalcula Infusoria, Fluviatilia et Marina*, p. 126.

OPINION 1550

Dysidea Johnston, 1842 (Porifera, Keratosa): conserved

Ruling

(1) Under the plenary powers the name *Spongelia* Nardo, 1834 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *Dysidea* Johnston, 1842 (gender: feminine), type species by subsequent designation by deLaubenfels (1948) *Spongia fragilis* Montagu, 1818, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *fragilis* Montagu, 1818, as published in the binomen *Spongia fragilis* (specific name of the type species of *Dysidea* Johnston, 1842), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name DYSIDEIDAE Gray, 1867 (type genus *Dysidea* Johnston, 1842) is hereby placed on the Official List of Family-Group Names in Zoology.

(5) The following names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology:

- (a) *Spongelia* Nardo, 1834, as suppressed in (1) above;
- (b) *Duseidea* Johnston, 1842 (an incorrect original spelling of *Dysidea* Johnston, 1842);
- (c) *Dysidia* Agassiz, 1846 (an unjustified emendation of *Dysidea* Johnston, 1842);
- (d) *Dyseidea* Lieberkuhn, 1859 (an incorrect subsequent spelling of *Dysidea* Johnston, 1842);
- (e) *Desidea* Koehler, 1855 (an incorrect subsequent spelling of *Dysidea* Johnston, 1842);
- (f) *Duseidea* Delage & Hérouard, 1899 (an unjustified emendation of *Dysidea* Johnston, 1842).

History of Case 1229

The application was made originally by Dr M. W. deLaubenfels (*Oregon State College, U.S.A.*) in 1957 but was then not proceeded with.

Dr deLaubenfels commented that until Schmidt's 1862 description of *Spongelia* Nardo, 1834 'half the sponges of the world might be said to come under it'. Topsent (1938, p. 18) claimed that *Spongelia* was available as from Nardo, 1834, and in subsequent work (e.g. 1945) he included several species in the genus. Topsent regarded *Spongelia* as a senior subjective synonym of *Dysidea* Johnston, 1842. However, *Dysidea* has been generally adopted because *Spongelia* has been considered unrecognisable until Schmidt's 1862 description of *Spongelia elegans*, and there has never been any suggestion that *S. elegans* is not congeneric with the type species of *Dysidea*, namely *Spongia fragilis* Montagu, 1818.

A case was formulated by Miss N. Erridge & Mr M. E. Tollitt (*formerly of the Commission Secretariat*) and published in BZN 44: 233-234 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 233–234. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 16: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Kabata, Kraus, Martins de Souza, Nielsen, Ride, Savage, Schuster, Uéno, Willink

Negative votes — 5: Halvorsen, Holthuis, Lehtinen, Mroczkowski and Thompson.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Thompson commented that he would have liked more information on the usage of *Dysidea* as a generic name.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Desidea Koehler, 1885, *Annales des Sciences Naturelles, Zoologie*, **20**(4): 12.

Duseideia Johnston, 1842, *History of British Sponges and Lithophytes*, p. 185.

Duseidea Delage & Hérouard, 1899, *Traité de Zoologie concrète*, vol. 2(1), p. 230.

Dyseideia, Lieberkuhn, 1859, *Archiv für Anatomie und Physiologie*, **1859**: 363.

Dysidea Johnston, 1842, *History of British Sponges and Lithophytes*, p. 251.

DYSIDEIDAE Gray, 1867, *Proceedings of the Zoological Society of London*, **1867**: 511.

Dysidia Agassiz, 1846, *Nomenclatoris Zoologici. Index Universalis*, p. 131.

fragilis, *Spongia*, Montagu, 1818, *Memoirs of the Wernerian Natural History Society*, **2**: 114.

Spongelia Nardo, 1834, *Isis, Jena*, **27**: col. 714.

Additional References

Topsent, E. 1938. Commentaires sur quelques genres d'Eponges marines. *Bulletin de l'Institut Océanographique. Monaco*. No. 744. 23 pp.

Topsent, E. 1945. Guide pour la connaissance d'Eponges de la Méditerranée. *Bulletin de l'Institut Océanographique. Monaco*. No. 883. 19 pp.

OPINION 1551

Hypsibius* Ehrenberg, 1848 (Tardigrada): *Macrobiotus dujardini* Doyère, 1840 designated as the type species*Ruling**

(1) Under the plenary powers it is hereby ruled that the correct spelling of the following names:

- (a) *dujardin* Doyère, 1840, as published in the binomen *Macrobiotus dujardin*, is deemed to be *dujardini*;
- (b) *oberhaeuser* Doyère, 1840, as published in the binomen *Macrobiotus oberhaeuser*, is deemed to be *oberhaeuseri*.

(2) Under the plenary powers all previous designations of type species for the nominal genus *Hypsibius* Ehrenberg, 1848 are hereby set aside and *Macrobiotus dujardini* Doyère, 1840 (original spelling emended in (1)(a) above) is designated as type species.

(3) The name *Hypsibius* Ehrenberg, 1848 (gender: masculine), type species by designation under the plenary powers in (2) above *Macrobiotus dujardini* Doyère, 1840, is hereby placed on the Official List of Generic Names in Zoology.

(4) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *dujardini* Doyère, 1840, as published in the binomen *Macrobiotus dujardin* (spelling emended in (1)(a) above), specific name of the type species of *Hypsibius* Ehrenberg, 1848;
- (b) *oberhaeuseri* Doyère, 1840, as published in the binomen *Macrobiotus oberhaeuser* (spelling emended in (1)(b) above).

(5) The following names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology:

- (a) *dujardin* Doyère, 1840, as published in the binomen *Macrobiotus dujardin* (spelling emended to *dujardini* in (1)(a) above);
- (b) *oberhaeuser* Doyère, 1840, as published in the binomen *Macrobiotus oberhaeuser* (spelling emended to *oberhaeuseri* in (1)(b) above).

History of Case 2589

An application for the designation of *Macrobiotus dujardini* Doyère, 1840 as the type species of the tardigrade genus *Hypsibius* Ehrenberg, 1848 was received from Drs M. G. Binda & G. Pilato (*Università di Catania, Italy*) on 11 December 1986. It was proposed that the original spelling of the specific names *dujardin* and *oberhaeuser* be emended in accordance with usage and with Recommendation 31A of the Code. After correspondence the case was published in BZN 44: 235–236 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 236. Proposal (1) [the emendation of the specific names] and Proposal (2) [the designation of the type species of *Hypsibius* Ehrenberg,

1848] were voted upon separately; members of the Commission were also asked to agree that the consequential entries on the Official Lists and Indexes should be made, and all those voting did so. At the close of the voting period on 1 June 1989 the votes were as follows:

Proposal (1):

Affirmative votes — 18: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Holthuis, Kabata, Kraus, Martins de Souza, Mroczkowski, Nielsen, Ride, Schuster, Thompson, Uéno, Willink

Negative votes — 2: Halvorsen and Savage.

Lehtinen abstained.

Proposal (2):

Affirmative votes — 17: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Mroczkowski, Nielsen, Ride, Schuster, Uéno, Willink

Negative votes — 4: Lehtinen, Martins de Souza, Savage and Thompson.

No votes were received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Martins de Souza commented that Marcus (1928) had designated *H. oberhaeuseri* as the type species of *Hypsibius*, and that this should not be invalidated by equivocal figures published by Thulin (1928); Thompson also commented that it was not clear whether Thulin's errors were other than trivial. Savage said that the application seemed intended to conserve the authors' new genus *Ramazottius* Binda & Pilato, 1986 (*Animalia*, 13(1-3): 159-166) of which *H. oberhaeuseri* was the type species.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

dujardin, *Macrobiotus*, Doyère, 1840, *Annales des Sciences Naturelles*, (Zoologie) (2)14: 288.

dujardini, *Macrobiotus*, Doyère, 1840, *Annales des Sciences Naturelles*, (Zoologie) (2)14: 288.

Hypsibius Ehrenberg, 1848, *Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königlich Preussischen Akademie der Wissenschaften zu Berlin*, 1848: 381.

oberhaeuser, *Macrobiotus*, Doyère, 1840, *Annales des Sciences Naturelles*, (Zoologie) (2)14: 286.

oberhaeuseri, *Macrobiotus*, Doyère, 1840, *Annales des Sciences Naturelles*, (Zoologie) (2)14: 286.

OPINION 1552

Diectophyme Collet-Meygret, 1802 (Nematoda): spelling confirmed

Ruling

(1) It is hereby confirmed that the original spelling of the generic name *Diectophyme* Collet-Meygret, 1802, is correct.

(2) The name *Diectophyme* Collet-Meygret, 1802 (gender: neuter), type species by subsequent monotypy *Strongylus gigas* Rudolphi, 1802 (a junior subjective synonym of *Ascaris renales* Goeze, 1782), is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *renales* Goeze, 1782, as published in the binomen *Ascaris renales* (valid name at the time of this ruling of the type species of *Diectophyme* Collet-Meygret, 1802), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name DIOCTOPHYMIDAE Railliet, 1915 (type genus *Diectophyme* Collet-Meygret, 1802) is hereby placed on the Official List of Family-Group Names in Zoology.

(5) The name *Diectophyma* Bosc, 1803 is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology (an incorrect subsequent spelling of *Diectophyme* Collet-Meygret, 1802).

(6) The name DIOCTOPHYMATIDAE Railliet, 1915 is hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology (based on an incorrect subsequent spelling of *Diectophyme* Collet-Meygret, 1802).

History of Case 2604

An application to confirm, at the request of the Council for International Organizations of Medical Sciences (CIOMS), the spelling of a parasitic nematode genus in the form *Diectophyme* was formulated by Mr M. E. Tollitt (formerly of the Commission Secretariat), in 1987. The case was published in BZN 44: 237–239 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

In relation to the designation of a type species for *Diectophyme* (BZN 44: 237–238, paras. 1 and 5(2) and (3)), it should be noted that *Ascaris renales* Goeze, 1782 (placed in combination with *Diectophyme* by C. W. Stiles in 1901) is a senior subjective synonym of *Strongylus gigas* Rudolphi, 1802, which is the type species by subsequent monotypy (Rudolphi, 1808).

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 238. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 18: Bock, Cocks, Cogger, Corliss, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — 2: Dupuis and Lehtinen.

No votes were returned by Bayer and Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and Official Indexes by the ruling given in the present Opinion:

Diectophyma Bosc, 1803, *Nouveau Dictionnaire d'Histoire Naturelle* . . . vol. 7, p. 255.

DIOCTOPHYMATIDAE Railliet, 1915, *Recueil de Médecine vétérinaire*, **41**(15): 493.

Diectophyme Collet-Meygret, 1802, *Journal de Physique, de Chimie et d'Histoire naturelle*, **55**: 463.

DIOCTOPHYMIDAE Railliet, 1915, *Recueil de Médecine vétérinaire*, **41**(15): 493.

renales, *Ascaris*, Goeze, 1782, *Versuch einer Naturgeschichte der Eingeweidewürmer thierischer Körper*, p. 73.

OPINION 1553

ATYIDAE De Haan, [1849] (Crustacea, Decapoda) and ATYIDAE Thiele, 1925 (Mollusca, Gastropoda): homonymy removed

Ruling

(1) Under the plenary powers it is hereby ruled that for the purposes of Article 29 of the Code the stem of the generic name *Atys* Montfort, 1810 is ATYD-.

(2) The name *Atys* Montfort, 1810 (Mollusca; gender: masculine), type species by original designation *Atys cymbulus* Montfort, 1810 (a junior subjective synonym of *Bulla naucum* Linnaeus, 1758), is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *naucum* Linnaeus, 1758, as published in the binomen *Bulla naucum* (the valid name at the time of this ruling of the type species of *Atys* Montfort, 1810), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name ATYDIDAE Thiele, 1925 (emended under the plenary powers in (1) above; type genus *Atys* Montfort, 1810) is hereby placed on the Official List of Family-Group Names in Zoology.

(5) The following names are hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology:

- (a) ATYIDAE Thiele, 1925 (an incorrect original spelling of ATYDIDAE Thiele, 1925 by virtue of the ruling in (1) above);
- (b) ATYDAE Abbott, 1954 (an incorrect subsequent spelling of ATYDIDAE Thiele, 1925).

History of Case 2357

An application to remove the homonymy between ATYIDAE De Haan, [1849] (Crustacea, Decapoda) and ATYIDAE Thiele, 1925 (Mollusca, Gastropoda) was received from Dr T. T. Crosby (*Department of Scientific and Industrial Research, Auckland, New Zealand*) and Dr A. Carpenter (*Ministry of Agriculture and Fisheries, New Zealand*) on 7 August 1980. After correspondence the case was published in BZN 43: 84–88 (April 1986). Notice of the case was sent to appropriate journals. It should be noted that ATYIDAE De Haan, [1849] was placed on the Official List of Family-Group Names in Zoology by Opinion 470 (June 1957).

Comments were received from Dr W. O. Cernohorsky (*Terranora, N.S.W., Australia*), Dr R. C. Willan (*University of Queensland, Brisbane, Australia*) and Dr P. M. Mikkelsen (*Harbor Branch, Oceanographic Institution, Florida, U.S.A.*) saying (with bibliographic references) that, in contrast to the doubt expressed in BZN 43: 84, para. 2, all recent authors agree that *Atys* and *Haminoea* Turton & Kingston in Carrington, 1830 are confamilial. Dr Cernohorsky commented that in the past ATYDAE was widely used because authors were unaware that HAMINEIDAE Pilsbry, [1895] (however spelt: see BZN 44: 166) existed or that ATYIDAE was a homonym. Drs Willan and Mikkelsen supported the proposals on BZN 43: 86, noting that family-group names based on *Atys* might still be needed. Dr Mikkelsen pointed out that the homonymy between ATYIDAE in Mollusca and Crustacea had been discussed by Burn (1978, pp. 93–112). Drs Cernohorsky and Willan both pointed out that ATYIDAE (Mollusca) dates from Thiele, 1925.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 43: 86. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 20: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — 1: Lehtinen.

No votes were received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

ATYDAE Abbott, 1954, *American Seashells*, p. 278.

ATYDIDAE Thiele, 1925. *Wissenschaftliche Ergebnisse der Deutschen Tiefsee-Expedition auf des Dampfer 'Valdivia' 1898–1899. (Gastropoda)*, vol. 17, part 2, p. 265.

ATYDIDAE Thiele, 1925. *Wissenschaftliche Ergebnisse der Deutschen Tiefsee-Expedition auf des Dampfer 'Valdivia' 1898–1899. (Gastropoda)*, vol. 17, part 2, p. 265.

Atys Montfort, 1810, *Conchyliologie systématique, et classification méthodique des coquilles. Coquilles Univalves, non cloisonnées*, vol. 2, p. 342.

naucum, *Bulla*, Linnaeus, 1758, *Systema Naturae*, Ed. 10, vol. 1, p. 726.

The following is the reference for the discussion of homonymy between ATYIDAE in Mollusca and Crustacea:

Burn, R. 1978. A review of Australian species of *Austrocylichna*, *Nipponatys*, *Cylichnatys* and *Diniatys* (Mollusca: Gastropoda: Haminoeidae). *Journal of the Malacological Society of Australia*, 4(1–2): 93–112.

OPINION 1554

***Cryptocoeloma* Miers, 1884 (Crustacea, Decapoda): *Cryptocoeloma haswelli* Rathbun, 1923 designated as the type species**

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Cryptocoeloma* Miers, 1884 are hereby set aside and *Cryptocoeloma haswelli* Rathbun, 1923 is designated as type species.

(2) The name *Cryptocoeloma* Miers, 1884 (gender: neuter), type species by designation under the plenary powers in (1) above, *Cryptocoeloma haswelli* Rathbun, 1923, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *haswelli* Rathbun, 1923, as published in the binomen *Cryptocoeloma haswelli* (specific name of the type species of *Cryptocoeloma* Miers, 1884), is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2611

An application for the designation of *Cryptocoeloma haswelli* Rathbun, 1923 as the type species of *Cryptocoeloma* Miers, 1884 was received from Mr Peter K. L. Ng (*National University of Singapore, Republic of Singapore*) and Dr L. B. Holthuis (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) on 17 June 1987. After correspondence the case was published in BZN 44: 240–241 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 240–241. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 20: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No votes were returned by Heppell and Kraus. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Cryptocoeloma Miers, 1884, *Report on the Zoological collections made in the Indo-Pacific Ocean during the voyage of HMS 'Alert' 1881–2*, p. 227.

haswelli, *Cryptocoeloma*, Rathbun, 1923, *Biological Results Fishing Experiments F.I.S. 'Endeavour', 5(1): 111.*

OPINION 1555

Parasigara Poisson, 1957 (Insecta, Heteroptera): *Corisa transversa* Fieber, 1848 confirmed as the type species

Ruling

(1) It is hereby confirmed that the type species of the nominal genus *Parasigara* Poisson, 1957 is *Corisa transversa* Fieber, 1848.

(2) The name *Parasigara* Poisson, 1957 (gender: feminine), type species by original designation *Corisa transversa* Fieber, 1848, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *transversa* Fieber, 1848, as published in the binomen *Corisa transversa* (specific name of the type species of *Parasigara* Poisson, 1957), is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2559

An application for the confirmation of *Corisa transversa* Fieber, 1848 as the type species of *Parasigara* Poisson, 1957 was received from Dr A. Jansson (*Zoological Museum, Helsinki, Finland*) on 3 March 1986. After correspondence the case was published in BZN 44: 242 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 242. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 20: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno

Negative votes — none.

No votes were returned by Heppell and Willink. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Parasigara Poisson, 1957, *Faune de France*, 61: 85.

transversa, *Corisa*, Fieber, 1848, *Bulletin de la Société Impériale des Naturalistes de Moscou*, 21(1): 520.

OPINION 1556

Dytiscus ater De Geer, 1774 (currently *Ilybius ater*) and *Dytiscus planus* Fabricius, 1781 (currently *Hydroporus planus*; Insecta, Coleoptera): specific names conserved

Ruling

(1) Under the plenary powers the specific name *ater* Forster, 1771, as published in the binomen *Dytiscus ater*, and all uses of that name prior to the publication of *Dytiscus ater* De Geer, 1774, are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.

(2) The following names are hereby placed on the Official List of Specific Names in Zoology:

(a) *ater* De Geer, 1774, as published in the binomen *Dytiscus ater*;

(b) *planus* Fabricius, 1781, as published in the binomen *Dytiscus planus*.

(3) The name *ater* Forster, 1771, as published in the binomen *Dytiscus ater* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2586

An application for the conservation of the specific names of *Dytiscus ater* De Geer, 1774 and *Dytiscus planus* Fabricius, 1781 was received from Dr A. N. Nilsson (*University of Umeå, Sweden*) on 19 December 1986. After correspondence the case was published in BZN 44: 178–179 (September 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 179, with proposal (1) amended to suppress all uses of *ater* Forster, 1771 prior to the publication of De Geer's name. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes—21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes—none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

ater, *Dytiscus*, Forster, 1771, *Novae species Insectorum* I, p. 54.

ater, *Dytiscus*, De Geer, 1774, *Mémoires pour servir à l'histoire des insectes*, vol. 4, p. 401.

planus, *Dytiscus*, Fabricius, 1781, *Species Insectorum*, vol. 2, p. 501.

OPINION 1557

Elachista Treitschke, 1833 (Insecta, Lepidoptera): conserved, and *E. bifasciella* Treitschke, 1833 confirmed as the type species

Ruling

(1) Under the plenary powers the generic name *Elachista* Kollar, 1832 and all uses of that name before the publication of *Elachista* Treitschke, 1833 are hereby suppressed for the purposes of both the Principle of Priority and the Principle of Homonymy.

(2) Under the plenary powers all designations of type species for the nominal genus *Elachista* Treitschke, 1833 prior to that by Meyrick (1915) are hereby set aside.

(3) The name *Elachista* Treitschke, 1833 (gender: feminine), type species by subsequent designation by Meyrick (1915) *Elachista bifasciella* Treitschke, 1833, is hereby placed on the Official List of Generic Names in Zoology.

(4) The name *bifasciella* Treitschke, 1833, as published in the binomen *Elachista bifasciella* (specific name of the type species of *Elachista* Treitschke, 1833) is hereby placed on the Official List of Specific Names in Zoology.

(5) The name ELACHISTIDAE Bruand, 1850 (type genus *Elachista* Treitschke, 1833) is hereby placed on the Official List of Family-Group Names in Zoology.

(6) The name *Elachista* Kollar, 1832, as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

History of Case 2481

An application for the conservation of *Elachista* Treitschke, 1833 and the confirmation of *E. bifasciella* Treitschke, 1833 as its type species was received from Drs E. S. Nielsen (CSIRO Division of Entomology, Canberra, Australia) and I. W. B. Nye (British Museum (Natural History), London) on 20 June 1988). After correspondence the case was published in BZN 45: 27–28 (March 1988). Notice of the case was sent to appropriate journals. In relation to para. 3 on p. 27, it should be noted that under Article 69a(iv) of the Code the type species designation of an author is eligible for consideration if he states that it is the type and if it is clear that he himself accepts it as the type species. In the Introduction (pp. 1–154) to his 1836 *Histoire naturelles des Insectes* Boisduval reviewed earlier classifications of Lepidoptera and designated up to three different 'type species' for each generic name. In his 'Exposé de notre Méthode' (pp. 155–690) no type species designation was made for any of the genera he himself used. Boisduval's type 'designations', although clearly stated, do not fulfil the requirements of the Code and have therefore not been accepted by lepidopterists. This includes his designation of *Elachista canifoliella* Treitschke, 1833 as type species of *Elachista*. Meyrick's 1915 designation of *E. bifasciella* Treitschke, 1833 as the type species has been followed by later workers and is in current use.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 45: 28. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

bifasciella, *Elachista*, Treitschke, 1833. In Ochseneimer, *Die Schmetterlinge von Europa*. vol. 9, part 2, p. 182.

Elachista Kollar, 1832. *Beiträge zur Landeskunde Oesterreich's unter der Enns*, 2: 98.

Elachista Treitschke, 1833. In Ochseneimer, *Die Schmetterlinge von Europa*. vol. 9, part 2, p. 177.

ELACHISTIDAE Bruand, 1850. *Mémoires (et Comptes Rendus) de la Société d'Émulation du Doubs* (1)3(5-6): 50.

The following is the reference for the designation of *E. bifasciella* as the type species of *Elachista*:

Meyrick, E. 1915. Description of New Zealand Lepidoptera. *Transactions of the New Zealand Institute*, 47: 210.

OPINION 1558

Dacus parallelus Wiedemann, 1830 (currently *Anastrepha parallela*; Insecta, Diptera): lectotype replaced

Ruling

(1) Under the plenary powers all designations of lectotype for the nominal species *Dacus parallelus* Wiedemann, 1830 before that by Zucchi (1979) are hereby set aside.

(2) The name *parallelus* Wiedemann, 1830, as published in the binomen *Dacus parallelus* and as interpreted by the lectotype designated by Zucchi (1979), is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2590

An application for the designation of a replacement lectotype for the fruit fly species *Dacus parallelus* Wiedemann, 1830 was received from Dr A. L. Norrbom (c/o National Museum of Natural History, Washington, U.S.A.) on 3 February 1987. After correspondence the case was published in BZN 44: 243–245 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 244–245. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following is the original reference to the name placed on an Official List by the ruling given in the present Opinion:

parallelus, *Dacus*, Wiedemann, 1830, *Aussereuropäische zweiflügelige Insekten*, vol. 2, p. 515.

The reference for the designation of the lectotype of *Dacus parallelus* is:

Zucchi, R. A. 1979. Sobre os tipos de *Anastrepha parallela* (Wied., 1830), de *A. striata* Schiner, 1868 e de *A. zernyi* Lima, 1934 (Diptera, Tephritidae). *Revista Brasileira de Entomologia*, 23: 263.

OPINION 1559

Ludita Nagy, 1967 (Insecta, Hymenoptera): *Tiphia villosa* Fabricius, 1793 designated as the type species

Ruling

(1) Under the plenary powers all previous designations of type species for the nominal genus *Ludita* Nagy, 1967 are hereby set aside and *Tiphia villosa* Fabricius, 1793 is designated as type species.

(2) The name *Ludita* Nagy, 1967 (gender: feminine), type species by designation under the plenary powers in (1) above, *Tiphia villosa* Fabricius, 1793, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *villosa* Fabricius, 1793 as published in the binomen *Tiphia villosa* (specific name of the type species of *Ludita* Nagy, 1967) is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2411

An application for the designation of *Tiphia villosa* Fabricius, 1793 as the type species of *Ludita* Nagy, 1967 was received from Dr C. van Achterberg (*Rijksmuseum van Natuurlijke Historie, Leiden, The Netherlands*) on 17 May 1982. After correspondence the case was published in BZN 45: 33 (March 1988). Notice of the case was sent to appropriate journals.

Dr van Achterberg stated that Dr K. V. Krombein (*United States National Museum, Washington, U.S.A.*) supported the application.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 45: 33. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists by the ruling given in the present Opinion:

Ludita Nagy, 1967, *Reichenbachia*, 8(24): 197.

villosa, *Tiphia*, Fabricius, 1793. *Entomologia systematica* . . . , vol 2, p. 227.

OPINION 1560

***Asterias squamata* Delle Chiaje, 1828 (currently *Amphipholis squamata*; Echinodermata, Ophiuroidea): specific name conserved**

Ruling

(1) Under the plenary powers the specific name *elegans* Leach, 1815, as published in the binomen *Ophiura elegans*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *squamata* Delle Chiaje, 1828, as published in the binomen *Asterias squamata*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *elegans* Leach, 1815, as published in the binomen *Ophiura elegans* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2131

An application for the conservation of *Asterias squamata* Delle Chiaje, 1828 was received from Miss A. M. Clark (formerly of the British Museum (Natural History), London) on 18 July 1975. The Commission Secretariat was unable to proceed with the case at that time, and the case was published in BZN 44: 246–247 (December 1987). Notice of the case was sent to appropriate journals. A comment 'enthusiastic in support' was received in October 1988 from Dr G. Hendler (Natural History Museum of Los Angeles County, California, U.S.A.).

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 45: 247. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 18: Bayer, Bock, Cocks, Corliss, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — 2: Cogger and Lehtinen.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Dupuis abstained as he thought the taxonomic position was too unclear. Cogger would have voted for precedence being given to the name *squamata*.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

elegans, *Ophiura*, Leach, 1815, Leach & Nodder, *Zoological Miscellany*, vol. 2, p. 57.

squamata, *Asterias*, Delle Chiaje, 1828, *Memorie sulla storia e notomia degli animali senza vertebre del Regno di Napoli*, vol. 3, p. 77.

OPINION 1561

Climacograptus manitoulinensis Caley, 1936 (currently *Paraclimacograptus manitoulinensis*; Graptolithina): specific name conserved

Ruling

(1) Under the plenary powers the specific name *hudsonicus* Nicholson, 1875, as published in the binomen *Diplograptus hudsonicus*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *manitoulinensis* Caley, 1936, as published in the binomen *Climacograptus manitoulinensis*, is hereby placed on the Official List of Specific Names in Zoology.

(3) The name *hudsonicus* Nicholson, 1875, as published in the binomen *Diplograptus hudsonicus* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2596

An application for the conservation of *Climacograptus manitoulinensis* Caley, 1936 was received from Professor J. F. Riva (Université Laval, Québec, Canada) on 27 February 1987. After correspondence the case was published in BZN 44: 228–229 (December 1987). Notice of the case was sent to appropriate journals. No comments were received.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 229. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 18: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Kabata, Kraus, Lehtinen, Martins de Souza, Nielsen, Ride, Savage, Schuster, Uéno, Willink

Negative votes — 3: Holthuis, Mroczkowski and Thompson.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Mroczkowski said that he would have favoured giving *manitoulinensis* precedence over *hudsonicus*.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

hudsonicus, *Diplograptus*, Nicholson, 1875, *Report on the Paleontology of the Province of Ontario*, part 2, p. 38.

manitoulinensis, *Climacograptus*, Caley, 1936, *Geological Survey of Canada*, Memoir 202(2): 65.

OPINION 1562

***Anabas oxyrhynchus* Boulenger, 1902 (currently *Ctenopoma oxyrhynchum*; Osteichthyes, Perciformes): specific name not conserved**

Ruling

(1) It is hereby confirmed that the Principle of Priority is to be applied to the specific names of the nominal species *Anabas oxyrhynchus* Boulenger, 1902 and *Ctenopoma weeksii* Boulenger, 1896.

(2) The name *weeksii* Boulenger, 1896, as published in the binomen *Ctenopoma weeksii*, is hereby placed on the Official List of Specific Names in Zoology.

History of Case 2595

An application for the conservation of *Anabas oxyrhynchus* Boulenger, 1902 was received from Mr S. M. Norris (*Oklahoma State University, U.S.A.*) on 27 February 1987. After correspondence the case was published in BZN 44: 192–193 (September 1987). Notice of the case was sent to appropriate journals. An opposing comment by Carl J. Ferraris, Jr. (*American Museum of Natural History, New York, U.S.A.*) was published in BZN 45: 143 (June 1988), together with a reply by the author of the application. In para. 4(2) on p. 192 of BZN 44 '*Anabas oxyrhynchum*' should read '*Anabas oxyrhynchus*'.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 192. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 9: Bock, Cocks, Cogger, Corliss, Halvorsen, Mroczkowski, Nielsen, Savage, Schuster

Negative votes — 12: Bayer, Dupuis, Hahn, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Ride, Thompson, Uéno and Willink.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

The proposal was thus not carried.

Hahn, Kraus, Martins de Souza, Ride, Thompson and Willink all agreed with Dr Ferraris' comment (BZN 45: 143), and said that the Principle of Priority should apply. Hahn and Kraus also commented that stability would be achieved by Mr Norris giving the synonymy of *weeksii* and *oxyrhynchus* in his forthcoming revisionary work on the genus *Ctenopoma*.

Original reference

The following is the original reference to the name placed on an Official List by the ruling given in the present Opinion:

weeksii, *Ctenopoma*, Boulenger, 1896, *Annals and Magazine of Natural History*, (6)17: 310.

OPINION 1563

Heliases ternatensis Bleeker, 1856 (currently *Chromis ternatensis*; Osteichthyes, Perciformes): specific name conserved, and *Chromis viridis* (Cuvier, 1830): name adopted for the fish formerly known as *C. caerulea* (Cuvier, 1830)

Ruling

(1) Under the plenary powers the following specific names are hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:

- (a) *caeruleus* Cuvier, 1830 as published in the binomen *Heliases caeruleus*;
- (b) *lepisurus* Cuvier, 1830 as published in the binomen *Heliases lepisurus*;
- (c) *frenatus* Cuvier, 1830 as published in the binomen *Heliases frenatus*.

(2) The following names are hereby placed on the Official List of Specific Names in Zoology:

- (a) *ternatensis* Bleeker, 1856, as published in the binomen *Heliases ternatensis*;
- (b) *viridis* Cuvier, 1830, as published in the binomen *Pomacentrus viridis*, and as interpreted by the lectotype designated by Randall, Bouchet & Desoutter (1985).

(3) The following names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology:

- (a) *caeruleus* Cuvier, 1830, as published in the binomen *Heliases caeruleus* and as suppressed in (1) (a) above;
- (b) *lepisurus* Cuvier, 1830, as published in the binomen *Heliases lepisurus* and as suppressed in (1) (b) above;
- (c) *frenatus* Cuvier, 1830, as published in the binomen *Heliases frenatus* and as suppressed in (1) (c) above.

History of Case 2516

An application for the conservation of *Helisaes ternatensis* Bleeker, 1856 and the adoption of the name *Chromis viridis* (Cuvier, 1830) for the fish commonly called *C. caerulea* (Cuvier, 1830) was received from Dr J. E. Randall (*Bishop Museum, Hawaii, U.S.A.*) and Drs M.-L. Bauchot & M. Desoutter (*Muséum National d'Histoire Naturelle, Paris, France*) on 29 April 1985. After correspondence the case was published in BZN 44: 248–250 (December 1987). Notice of the case was sent to appropriate journals. It was suggested by the Secretariat that the specimen in Mertens' 'belle figure' (see BZN 44: 248, para. 2), which is formally a syntype of the nominal species *Heliases caeruleus* Cuvier, 1830, could be designated the lectotype of that species, and that *caeruleus* could then, by a first reviser action, be given precedence over *Pomacentrus viridis*. However, Dr J. E. Randall replied that the 'belle figure', like Mertens' painting of a specimen from Guam (which has the reference no. MS 490 VB 9 and not as given in para. 8 of the application) could be of *C. atripectoralis* Welander & Schultz, 1951, and does not necessarily represent *caerulea* auct. (= *viridis* Cuvier).

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 249–250. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 16: Bayer, Bock, Cocks, Corliss, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Nielsen, Ride, Savage, Schuster, Uéno, Willink

Negative votes — 4: Cogger, Hahn, Mroczkowski and Thompson.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Dupuis abstained. Mroczkowski considered it would have been better to have designated the lectotype of *P. viridis* as the neotype of *H. caeruleus*, and then ruled that *caeruleus* be given precedence over *viridis*. Hahn would have also preferred to have a neotype designated for *caeruleus* (thereby also solving the *ternatensis* difficulty), whereas Cogger would have used one of the synonyms *lepisurus* or *frenatus* for the blue-green damselfish, since these names did not have the ambiguous background of *caeruleus*.

Original references

The following are the original references to the names placed on an Official List and an Official Index by the ruling given in the present Opinion:

caeruleus, Heliases, Cuvier, 1830, *Histoire Naturelle des Poissons*, vol. 5, p. 497.

frenatus, Heliases, Cuvier, 1830, *Histoire Naturelle des Poissons*, vol. 5, p. 498.

lepisurus, Heliases, Cuvier, 1830, *Histoire Naturelle des Poissons*, vol. 5, p. 498.

ternatensis, Heliases, Bleeker, 1856, *Natuurkundig Tijdschrift voor Nederlandsch-Indië*, 10: 377.

viridis, Pomacentrus, Cuvier, 1830, *Histoire Naturelle des Poissons*, vol. 5, p. 420.

OPINION 1564

Neamia octospina Smith & Radcliffe in Radcliffe, 1912 (Osteichthyes, Perciformes): specific name conserved

Ruling

(1) Under the plenary powers the specific name *sphenurus* Klunzinger, 1884, as published in the binomen *Apogon sphenurus*, is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *Neamia* Smith & Radcliffe in Radcliffe, 1912 (gender: feminine), type species by original designation *Neamia octospina* Smith & Radcliffe in Radcliffe, 1912, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *octospina* Smith & Radcliffe in Radcliffe, 1912, as published in the binomen *Neamia octospina* (specific name of the type species of *Neamia* Smith & Radcliffe in Radcliffe, 1912), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name *sphenurus* Klunzinger, 1884, as published in the binomen *Apogon sphenurus* and as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2541

An application for the conservation of *Neamia octospina* Smith & Radcliffe in Radcliffe, 1912 was received from Dr O. Gon (*J. L. B. Smith Institute of Ichthyology, Grahamstown, South Africa*) on 18 November 1985. After correspondence the case was published in BZN 44: 251–252 (December 1987). Notice of the case was sent to appropriate journals. The author has stated that Dr J. E. Randall, of *Bishop Museum, Hawaii, U.S.A.*, supports the application.

A comment by Professor L. B. Holthuis suggested that instead of suppressing *sphenurus* Klunzinger, 1884 precedence could be given to *octospina* Smith & Radcliffe in Radcliffe, 1912. The name *sphenurus* (based on a Red Sea specimen) would then be available if the Red Sea population proved to be a different taxon from that of the Indo-West Pacific (i.e. *octospina*, with its type locality in the Philippines). However, modern specimens from the Red Sea and Indian Ocean have been referred to *octospina* and there has been no suggestion that the populations from the two areas differ (Gon, 1987). [Despite the title of Gon's paper (see the list of references on BZN 44: 252) he used *octospina* as the valid name].

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 251–252. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 17: Bayer, Bock, Cocks, Cogger, Corliss, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — 4: Dupuis, Lehtinen, Martins de Souza and Mroczkowski.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Dupuis and Mroczkowski would have favoured precedence being given to *octospina*. Martins de Souza did not consider the case strong enough to override the priority of *sphenurus*.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

Neamia Smith & Radcliffe in Radcliffe, 1912, *Proceedings of the U.S. National Museum*, **41**: 441.
octospina, *Neamia*, Smith & Radcliffe in Radcliffe, 1912, *Proceedings of the U.S. National Museum*, **41**: 441.

sphenurus, *Apogon*, Klunzinger, 1884, *Fische des Rothen Meeres*, p. 20.

OPINION 1565

Platanista Wagler, 1830 (Mammalia, Cetacea): conserved

Ruling

(1) Under the plenary powers the generic name *Susu* Lesson, 1828 is hereby suppressed for the purposes of the Principle of Priority but not for those of the Principle of Homonymy.

(2) The name *Platanista* Wagler, 1830 (gender: feminine), type species by monotypy *Delphinus gangeticus* Roxburgh, 1801, is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *gangeticus* Roxburgh, 1801, as published in the binomen *Delphinus gangeticus* (specific name of the type species of *Platanista* Wagler, 1830), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name *Susu* Lesson, 1828, as suppressed in (1) above, is hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology.

History of Case 321

The question of the conservation of *Platanista* Wagler, 1830 was originally raised by Dr G. H. H. Tate in 1947, but due to inadequate resources a case was not prepared at that time. The present case was submitted by Dr D. W. Rice (*National Marine Mammal Laboratory, Washington, U.S.A.*) and, after correspondence, was published in BZN 44: 253–254 (December 1987). Notice of the case was sent to appropriate journals.

A comment in support was received from Drs John E. Heyning and Lawrence G. Barnes (*Natural History Museum of Los Angeles County, U.S.A.*) and was published in BZN 45: 223 (September 1988).

A note of a second supportive comment, from Dr P. J. H. van Bree (*Amsterdam, The Netherlands*), was also published in BZN 45: 223. A further supportive comment was received from Dr Robert L. Brownell, Jr. (*U.S. Fish and Wildlife Service, San Simeon, California, U.S.A.*), who also pointed out that some recent authors have recognised two nominal species: *Platanista gangetica* (Roxburgh, 1801) from the Ganges-Brahmaputra-Meghna river systems in India and Bangladesh, and some rivers in Nepal, and *P. minor* Owen, 1853 from the Indus river in Pakistan.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 253. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 21: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Ride, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — none.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

gangeticus, *Delphinus*, Roxburgh, 1801, *Asiatic Researches* [Calcutta edition], p. 171.

Platanista Wagler, 1830, *Natürliches System der Amphibien, mit vorangehender Classification der Saugthiere und Vögel*, p. 35.

Susu Lesson, 1828, *Histoire Naturelle générale et particulière des Mammifères et des Oiseaux découverts depuis 1788 jusqu'à nos jours*, vol. 1, p. 212.

OPINION 1566

Megaloceros Brookes, 1828 (Mammalia, Artiodactyla): original spelling emended

Ruling

(1) Under the plenary powers it is hereby ruled that the correct original spelling of *Megaloceros* Brookes, 1828 is deemed to be *Megaloceros*.

(2) The name *Megaloceros* Brookes, 1828 (gender: masculine), original spelling emended as in (1) above, type species by monotypy *Megaloceros antiquorum* Brookes, 1828 (a junior subjective synonym of *Alce gigantea* Blumenbach, 1799), is hereby placed on the Official List of Generic Names in Zoology.

(3) The name *gigantea* Blumenbach, 1799, as published in the binomen *Alce gigantea* (valid name at the time of this ruling of the type species of *Megaloceros* Brookes, 1828), is hereby placed on the Official List of Specific Names in Zoology.

(4) The name *Megaloceros* Brookes, 1828, (spelling emended to *Megaloceros* in (1) above) is hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology.

History of Case 2606

An application for the adoption of *Megaloceros* as the correct spelling of the generic name of the 'Irish elk' or giant deer was received from Dr A. M. Lister (*University of Cambridge, U.K.*) on 30 April 1987. After correspondence the case was published in BZN 44: 255–256 (December 1987). Notice of the case was sent to appropriate journals.

A supportive comment from Dr P. J. Boylan (*Leicester, U.K.*) was published in BZN 44: 262.

Three members of the Committee on Mammal Names of the International Theriological Congress (Drs S. B. George, D. Kock and J. Meester) favoured the original spelling of Brookes' generic name, *Megaloceros*, and this was noted on the voting papers. The spelling *Megalocerus* has never been used since Brookes' obscure booklet of 1828; only *Megaloceros* is listed in Sherborn's 1928 *Index Animalium*, while Neave's 1940 *Nomenclator* gives *Megalocerus* as a junior synonym of *Megaloceros*. As documented in the references in para. 4 of BZN 44: 255, *Megaloceros* has been widely used since its adoption in 1945 by G. G. Simpson, who had evidently not seen Brookes' publications. The 'Irish elk' (which was of wide Palaearctic distribution) was until 1945, and by some authors since, known as *Megaceros* Owen, 1844.

It may be noted that both Sherborn and Neave list the name *Megalocervus* Mantell, 1836 (p. 6). This was applied to the 'Irish elk' but seems never to have been mentioned since its original appearance.

Decision of the Commission

On 1 March 1989 the members of the Commission were invited to vote on the proposals published in BZN 44: 256. At the close of the voting period on 1 June 1989 the votes were as follows:

Affirmative votes — 20: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis, Hahn, Halvorsen, Holthuis, Kabata, Kraus, Lehtinen, Martins de Souza, Mroczkowski, Nielsen, Savage, Schuster, Thompson, Uéno, Willink

Negative votes — 1: Ride.

No vote was received from Heppell. Starobogatov and Trjapitzin were on leave of absence.

Hahn commented that *Megaceros* should be treated as a junior synonym of *Megaloceros*. Ride commented that as a palaeomammalogist he did not consider that any confusion or loss of universality would be caused by use of the original spelling of Brookes' name, which was *Megalocerus*, and that it was widely recognized that any continued usage of *Megaceros* Owen, 1844 was simply wrong.

Original references

The following are the original references to the names placed on Official Lists and an Official Index by the ruling given in the present Opinion:

gigantea, Alce, Blumenbach, 1799, *Handbuch der Naturgeschichte*, 6th Ed., vol. 16, p. 697.

Megaloceros Brookes, 1828. *A Catalogue of the Anatomical and Zoological Museum of Joshua Brookes, Esq.*, part 1, p. 61.

Megalocerus Brookes, 1828. *A Catalogue of the Anatomical and Zoological Museum of Joshua Brookes, Esq.*, part 1, p. 61.

Additional reference

Mantell, G. A. 1836. *A descriptive catalogue of the objects of Geology, Natural History, and Antiquity (chiefly discovered in Sussex), in the Museum, attached to the Sussex Scientific and Literary Institution, at Brighton*, 4th Ed., 44 pp., Relfe & Fletcher, London.

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INSTRUCTIONS TO AUTHORS

The following notes are primarily for those preparing applications to the Commission; other authors should comply with the relevant sections. Parts of the Bulletin since 44 (1) should be consulted as examples.

Title. This should be written in lower case letters and include the names to be conserved. A specific name should be cited in the original binomen, with the current binomen in parentheses.

Author's name. Full postal address should be given.

Abstract. This will be prepared by the Commission Secretariat.

Text. Typed in double spacing, this should consist of numbered paragraphs setting out the details of the case and leading to a final paragraph of formal proposals. Text references should give dates and page numbers in parentheses, e.g. 'Daudin (1800, p. 39) described . . . '.

References. These should be given for all authors cited. The titles of periodicals should be *in full* and be underlined; numbers of volumes, parts, etc. should be in arabic figures, separated by a colon from page numbers. Book titles should be underlined and followed by the number of pages, the publisher and the place of publication.

Submission of application. Two copies should be sent to the address on the inside front cover. The Secretariat is willing to offer additional advice at an early stage in the preparation of manuscripts.

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The Bulletin of Zoological Nomenclature



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of the International Commission
on Zoological Nomenclature*



THE BULLETIN OF ZOOLOGICAL NOMENCLATURE

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The Executive Secretary,
International Commission on Zoological Nomenclature,
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BULLETIN OF ZOOLOGICAL NOMENCLATURE

Volume 46, part 4 (pp. 221-283)

19 December 1989

Notices

(a) *Invitation to comment.* The Commission is entitled to start to vote on applications published in the *Bulletin of Zoological Nomenclature* six months after the publication of each application. This period is normally extended to enable comments to be submitted. Any zoologist who wishes to comment on any of the applications is invited to send his contribution, in duplicate, to the Secretary of the Commission as quickly as possible, and in any case in time to reach the Secretary within twelve months of the date of publication of the application.

(b) *Invitation to contribute general articles.* At present the *Bulletin* comprises mainly applications concerning names of particular animals or groups of animals, resulting comments and the Commission's eventual rulings (Opinions). Proposed amendments to the Code are also published for discussion.

Articles or notes of a more general nature are actively welcomed provided that they raise nomenclatural issues, although they may well deal with taxonomic matters for illustrative purposes. It should be the aim of such contributions to interest an audience wider than some small group of specialists.

(c) *Receipt of new applications.* The following new applications have been received since going to press for volume 46, part 3 (published on 29 September 1989):

- (1) *Brahmaea* Walker, 1855 (Insecta, Lepidoptera): proposed confirmation of *Bombyx certhia* Fabricius, 1793 as the type species. (Case 2737). W. A. Nässig & I. W. B. Nye.
- (2) *Acanthophthalmus* Bleeker, 1859 (Osteichthyes, Cypriniformes): proposed conservation. (Case 2738). M. E. BurrIDGE, D. J. Siebert & C. Ferraris, Jr.
- (3) *Helicarion* Férussac, 1821 (Mollusca, Gastropoda): proposed conservation. (Case 2739). B. J. Smith & R. C. Kershaw.
- (4) *Gongylus* (*Lygosoma*) *entrecasteauxii* Duméril & Bibron, 1839 (currently *Leiopolisima entrecasteauxii*; Reptilia, Squamata): proposed precedence over *Scincus decemlineatus* Lacépède, 1804 and *S. undecimstriatus* Kuhl, 1820. (Case 2740). M. N. Hutchinson.
- (5) *Hirudo marmorata* Say, 1824 (currently *Haemopsis marmorata*; Annelida, Hirudinea): proposed conservation of the specific name. (Case 2741). E. E. Spamer & A. E. Bogan.
- (6) *Vatellus* Aubé, 1837 (Insecta, Coleoptera): proposed conservation. (Case 2742). A. N. Nilsson.
- (7) HELEOMYZIDAE Bezzi, 1911 (Insecta, Diptera): proposed precedence over HETEROMYZIDAE Fallén, 1820, RHINOTORINAE Williston, 1896 and LERIINAE Czerny, 1904. (Case 2743). A. Woznica & T. Zatwarnicki.

- (8) *Alveolites battersbyi* H. Milne Edwards & Haime, 1851 (currently *Caliopora battersbyi*; Cnidaria, Tabulata): proposed designation of a replacement neotype. (Case 2744). F. Tourneur, K. Goodger, C. Iven, B. Mistiaen & C. Scrutton.

(d) *Rulings of the Commission*. Each Opinion, Declaration and Direction published in the *Bulletin* constitutes an official ruling of the International Commission on Zoological Nomenclature, by virtue of the votes recorded, and comes into force on the day of publication of the *Bulletin*.

Election of members of the International Commission on Zoological Nomenclature

The Commission has elected the following new members, with effect from 6 September 1989:

Dr ENRIQUE MACPHERSON (*Instituto de Ciencias del Mar, Paseo Nacional, s/n, 08003 Barcelona, Spain*). Dr Macpherson's research primarily concerns marine decapod crustaceans. He is a member of the nomenclature panel of the Crustacean Society.

Dr VOLKER MAHNERT (*Muséum d'Histoire naturelle, Case postal 434, CH-1211 Genève, Switzerland*). Dr Mahnert specialises in tropical freshwater ichthyology, with pseudoscorpions as an additional interest. He is an editor of *Revue suisse de Zoologie*.

Prof ALESSANDRO MINELLI (*Dipartimento di Biologia, Università di Padova, Via Loredan 10, I-35131 Padova, Italy*). Prof Minelli's researches concern myriapods and also free-living planarians. He is currently working on a check list of centipedes.

Dr IAN W. B. NYE (*c/o British Museum (Natural History), Cromwell Road, London, SW7 5BD, U.K.*). Dr Nye is Editor of the multi-volume *The generic names of moths of the world*. He was a member of the Commission from 1972–81.

Official Lists and Indexes of Names and Works in Zoology — Supplement

The Official Lists and Indexes of Names and Works in Zoology was published in 1987. This gave all the names and works on which the International Commission on Zoological Nomenclature had ruled since it was set up in 1895 up to December 1985. There were about 9,900 entries.

In the three years 1986–88, 544 names and 3 works have been added to the Official Lists and Indexes. A supplement has been prepared giving these additional entries, together with some amendments to entries in the 1987 volume. This supplement was circulated with Vol. 46, Part 1 of the *Bulletin of Zoological Nomenclature*. Copies can be obtained without charge from either of the following addresses, from which the *Official Lists and Indexes of Names and Works in Zoology* can be ordered at the price shown:

The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £60 or \$110

or

The American Association for Zoological Nomenclature, c/o NHB Stop 163, National Museum of Natural History, Washington D.C. 20560, U.S.A. Price \$110 (\$100 to members of A.A.Z.N.).

The International Code of Zoological Nomenclature

The Third Edition (published 1985) supersedes all earlier versions and incorporates many changes.

Copies may be ordered from The International Trust for Zoological Nomenclature, c/o British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K. Price £19.00 or US\$35.00 (postage included). Payment should accompany orders.

Orders from North America should be sent to University of California Press, Berkeley 94720, California, U.S.A.

International Trust for Zoological Nomenclature

Financial Report for the year 1988

It is good to report that a small operating surplus of £300 was made in 1988, which is 0.5% of the total income of £59,880 received during that year. It demonstrates the extent to which the Trust relies on the continuation of its generous grants and donations.

Approximately half the Trust's income came from sales of publications. Foremost amongst these were the four parts of the 1988 volume of the *Bulletin of Zoological Nomenclature*, which together with a small amount of back stock of the *Bulletin* and the *Opinions* yielded an income of £20,400. Sales of the *Official Lists and Indexes* continued at the high level of £10,463 in 1988. Total sales of the *Lists* since publication in June 1987 were £18,124 up to the end of 1988, which brings the profit on that publication up to £2,177, after the printing costs have been deducted. Sales of the *International Code of Zoological Nomenclature* dropped to the unusually low figure of £1,171 in 1988, due mainly to the accounting for stocks held by distributors falling in other years. Steps have now been taken for the Trust to sell the *Code* direct, and it is expected that sales in a normal year should yield in the region of £3,000.

The remaining half of the Trust's income was from grants, donations and interest. Grants of £1,000 from the Royal Society, and £2,000 each from the Agricultural and Food Research Council, the Medical Research Council, the Natural Environment Research Council and the Science and Engineering Research Council were received with thanks. The Trust also wishes to express its thanks to the donors listed at the end of this report who supported its work to the total of £9,700. Income from deeds of covenant amounted to £100, and bank and investment interest came to £8,998.

The expenses of the Trust in 1988 amounted to £59,580. The largest amount was for the salaries (£45,672) and office expenses (£4,521) of the members of staff of the Secretariat of the International Commission on Zoological Nomenclature. This included a modest contribution to the expenses of some of the staff to attend the meeting of the Commission held at the triennial conference of the International Union of Biological Sciences at Canberra in October 1988. Printing and distribution of the *Bulletin* amounted to £8,872, and for the second year was successfully organised from the office of the Commission. Minor expenses of £290 for depreciation of office equipment and £225 for the audit fee, brought the total expenses up to £59,580. The Commission

was again housed in the British Museum (Natural History), whom we thank for their continuing support.

The investments of the Trust in Charifund and the Charities Official Investment Fund were valued at £125,575 in June 1989, and they yield an increasing rate of interest.

M. K. HOWARTH

Secretary and Managing Director

13 June 1989

The following donations were received:

Academia Sinica, Taiwan, £112
 American Association for Zoological Nomenclature, £5,313
 British Ecological Society, £500
 Freshwater Biological Association, £5
 Natural Research Council of Sweden, £1,000
 Royal Danish Academy of Sciences, £88
 Swiss Academy of Science, £1,997
 Unione Zoologica Italiana, £685

INTERNATIONAL TRUST FOR ZOOLOGICAL NOMENCLATURE
 INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED
 31 DECEMBER, 1988

Income

SALE OF PUBLICATIONS		
Bulletin of Zoological Nomenclature	20,400	
International Code of Zoological Nomenclature	1,171	
Official Lists and Indexes	10,463	
		32,034
GRANTS	9,000	
DONATIONS AND COVENANTS	9,848	
BANK AND INVESTMENT INTEREST	8,998	
		27,846
		£59,880

Expenditure

SALARIES AND FEES	45,672	
OFFICE EXPENSES	4,521	
AUDIT FEE	225	
PRINTING AND DISTRIBUTION OF PUBLICATIONS		
Bulletin of Zoological Nomenclature	8,872	
DEPRECIATION OF OFFICE EQUIPMENT	290	
		£59,580

Surplus for the year

£300

Case 2683***Gryphaea pitcheri* Morton, 1834 (currently *Texigryphaea pitcheri*; Mollusca, Bivalvia): proposed conservation**

Barry S. Kues

Department of Geology, University of New Mexico, Albuquerque, New Mexico 87131, U.S.A.

Spencer G. Lucas

New Mexico Museum of Natural History, P.O. Box 7010, Albuquerque, New Mexico, U.S.A.

Abstract. The purpose of this application is to conserve the specific name *Gryphaea pitcheri* Morton, 1834 for a Lower Cretaceous bivalve by suppression of the possible senior synonym *Gryphaea corrugata* Say, 1823.

1. Say (in Thomas, 1823, pp. 410–411) established the name *Gryphaea corrugata* for a Lower Cretaceous bivalve from southeastern Oklahoma. He gave only a brief and rather vague description, no illustration and an uncertain locality and stratigraphic unit. The specimen or specimens on which the species is based are not extant.

2. Morton (1834, p. 55) named *Gryphaea pitcheri* on the basis of specimens collected from the same general area as *G. corrugata*. Morton's description was brief but he illustrated the holotype (pl. 15, fig. 9) which is extant (Philadelphia Academy of Sciences no. 14,351). It has been studied by subsequent authors such as Hill & Vaughan (1898, pl. 6, figs. 5–7), Stanton (1947, pl. 10, figs. 4, 5) and Fay (1975, figs. 19, 20).

3. The name *Gryphaea corrugata* was not used from the time it was established until Hill & Vaughan (1898, pp. 34–35) resurrected it as a senior synonym of *G. pitcheri*. However, Hill & Vaughan did not designate a lectotype or neotype for *G. corrugata* although they recognized that Say's specimens were not available. They made collections of what they called *G. corrugata* from the upper Kiamichi Formation, 23 km northwest of the mouth of the Kiamichi River (near Goodland, Oklahoma), and stated (p. 57) that this was the 'exact locality' of Say's specimens.

4. Subsequent workers who discussed the Lower Cretaceous North American species of *Gryphaea*, such as Stanton (1947, p. 26) and Stenzel (1959, p. 27) used *G. corrugata* as a senior synonym of *G. pitcheri* on the authority of Hill & Vaughan (1898). Stenzel (1959, p. 22) established the subgenus *Texigryphaea* for the North American Cretaceous species studied by Hill & Vaughan (1898) and later (1971, p. 1113) raised *Texigryphaea* to generic rank.

5. Fay (1975) reviewed the occurrence and characteristics of the type specimens of all *Texigryphaea* species. He stated that the characteristic features of *T. corrugata* could not be definitely established and ascertained that the area from which Say's specimens of *G. corrugata* were collected did not include the locality Hill & Vaughan (1898) believed them to have come from. Fay did establish precisely the locality for Morton's

type specimen of *G. pitcheri*. He recommended (1975, p. 46) that the name *Texigryphaea corrugata*, which he described as being a nomen nudum, be suppressed and that *T. pitcheri* take its place.

6. According to Fay's information, the area from which Say's specimens of *G. corrugata* were collected (west of Fort Towson, Oklahoma) is about 40 square kilometres in extent and includes exposures of the Goodland, Kiamichi and Caddo (= Duck Creek and Fort Worth) formations. These formations in this area contain four species of *Texigryphaea*. This area is at least 8 km from the location where Hill & Vaughan believed Say's *G. corrugata* specimens were obtained. Thus, the locality and stratigraphic unit from which the original specimens of *G. corrugata* were collected remain uncertain and can be limited only to a relatively large area. Because of the vagueness of Say's original description of *G. corrugata* and lack of a type specimen, it is also uncertain which of the four locally-occurring species of *Texigryphaea* the name *T. corrugata* applies to.

7. Since 1975, the name *Texigryphaea corrugata* has been used in fossil lists by some workers (e.g. Kauffman, 1977, p. 227) and the name *T. pitcheri* by others (e.g. Scott, 1986, p. 200) for the same species.

8. The observations above lead to the following conclusions regarding *Gryphaea corrugata*:

- (1) Say's (1823) description of the species is too general to allow the species to be identified without question, and therefore its status as a senior synonym of *G. pitcheri* or its identity with some other related species cannot be firmly established;
- (2) there is no evidence that Say (1823) designated a type specimen, nor have subsequent workers;
- (3) the specimen on which Say based the species *G. corrugata* is not extant and was not available to Hill & Vaughan in 1898 when they resurrected the name;
- (4) the locality and stratigraphic unit from which *G. corrugata* was originally described cannot be determined exactly and, therefore, meaningful topotypes cannot be collected in order to define the species better.

9. *Gryphaea pitcheri* Morton, 1834, on the other hand, is represented by a holotype from an accurately known locality and stratum; topotypes can be collected and the original brief description augmented so that this species can be characterized in detail.

10. Although the name *Gryphaea corrugata* Say predates *G. pitcheri* by 11 years, strict application of the Principle of Priority and continued usage of *G. corrugata* would continue to result in an unrecognizable species name being applied to an abundant and widespread species for which a firmly established name, *T. pitcheri*, is available.

11. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the specific name *corrugata* Say, 1823, as published in the binomen *Gryphaea corrugata*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *pitcheri* Morton, 1834, as published in the binomen *Gryphaea pitcheri*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *corrugata* Say, 1823, as published in the binomen *Gryphaea corrugata* and as suppressed in (1) above.

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Case 2554***Myriochele* Malmgren, 1867 and *Myriochele oculata* Zaks, 1923
(Annelida, Polychaeta): proposed conservation**

Rune Nilsen

*Institute of Biology and Geology, University of Tromsø, P.O. Box 3085,
N-9001 Tromsø, Norway*

Torleif Holthe

Granvegen 27a, N-7058 Jakobsli, Trondheim, Norway

Abstract. The purpose of this application is the conservation of the generic name *Myriochele* Malmgren, 1867 and the specific name *oculata* Zaks, 1923 for a marine bristleworm. The generic name is threatened by two senior subjective synonyms, *Clymenia* Ørsted, 1844 and *Psammocollus* Grube, 1866, both unused for over 50 years. The specific name *oculata* Zaks, 1923 is preferred to *tenuissima* Ørsted, 1844 for which there is no extant type material.

1. Ørsted (1844, p. 79) established the genus *Clymenia* for the single species *Clymenia tenuissima*. His description, in the form of a footnote, was barely adequate even for that time. This description was later repeated by Quatrefages (1865, p. 235), who provided no additional information. The specimens were collected at Hellebæk, Denmark, but all original material is almost certainly lost. It could not be found in the collections of the Zoological Museum of the University of Copenhagen when one of us (R.N.) visited the museum in July, 1985.

2. The genus *Psammocollus* was established by Grube (1866, p. 178) for the single species (type species by monotypy) *Psammocollus australis*, from St Paul Island (in the Southern Indian Ocean). The type material is not extant; it is not mentioned among the types of Grube by Wiktor (1980) who states that other types from the same expedition (*Novara*) are in the collection of the Museum of Natural History at Wrocław University.

3. Malmgren (1867, pp. 101–102) established the genus *Myriochele* for his single new species *Myriochele heeri* (type by monotypy; type localities: Trygghavn, Svalbard and Omenak, Greenland). The types of *Myriochele heeri* remain in the Naturhistoriska Riksmuseet, Stockholm.

4. Grube (1866, p. 179) wrote: 'Die Gattung *Clymenia* Örds., von der wir leider bloss eine Beschreibung, keine Abbildung besitzen, und deren einzige Art *Cl. tenuissima* nicht weiter charakterisirt ist, scheint unserem *Psammocollus* sehr nahe zu stehen, unterscheidet sich aber dadurch, dass die Segmente zahlreich und deutlich, der Kopftheil keulenförmig, der Mund endständig und das Hinterende plattgedrückt sein soll. Die Borsten sollen wie bei *Clymene* beschaffen sein' [The genus *Clymenia* Örds., of

which we regrettably only have a description and no figure, and whose only species *Cl. tenuissima* is not more precisely characterised, seems to be close to our *Psammocollus*, but is different by the segments being numerous and distinct, the head region conical, the mouth terminal, and the hind part should be compressed. The bristles should be like those of *Clymene*.]. Later Grube (1868a, p. 58) mentioned: 'Er [Malmgren] beschreibt noch eine zweite Gattung *Myriochele*, die mit *Psammocollus* Gr. fast zusammenzufallen scheint, . . .' [He (Malmgren) describes another genus *Myriochele*, which seems to be almost identical with *Psammocollus* Gr. . . .].

5. Grube (1868b) published a Latin diagnosis of the genus *Psammocollus* and the species *australis* together with a German description and accompanying figures. It has apparently been overlooked that he also published only the Latin diagnosis in *Verhandlungen der Kaiserlich-Königlichen zoologisch-botanischen Gesellschaft in Wien*, the title page of which bears the date 1866 and thus antedates Malmgren's work by one year. One reason why the priority of this work has been misinterpreted is that certain authors of standard reference works (e.g. Hartman, 1951; Fauchald, 1977) have erroneously given the year of publication as 1869 rather than 1866.

6. McIntosh (1885, p. 410) was the first author who explicitly stated that *Psammocollus* and *Myriochele* were synonyms: 'The *Psammocollus* of Grube is synonymous with Malmgren's *Myriochele*'.

7. Webster & Benedict (1887, p. 746) wrote: 'In the same year (1867) Malmgren described a new genus of this family [Ammocharidae] under the name *Myriochele* and Grube (Novara-Expedition, Anneliden), the same genus, and probably the same species, giving to it the name *Psammocollus (australis)*. We do not know which name is entitled to priority.' In fact, Grube's name was published in 1866 (see para. 5).

8. Arwidsson (1906, p. 23) wrote: 'Es mag hier erwänt werden, dass *Clymenia tenuissima* Ørsted (9, p. 79) offenbar der Gattung *Myriochele* Malmgren angehört, vgl. im übrigen 7, p. 186!' [Here it may be mentioned that *Clymenia tenuissima* Ørsted (9, p. 79) obviously belongs to the genus *Myriochele* Malmgren, cf. additionally 7, p. 186!].

9. We agree with earlier authors that *Clymenia* is a synonym of *Myriochele* but we do not agree with Grube (1866) and Hartman (1959) that *Clymenia tenuissima* is indeterminate. On the contrary we believe that it is the very species that was later described as *Myriochele oculata* by Zaks (1923, p. 163; cf. Zachs, 1923). The name *oculata* has been accepted in Russia since its description, and in the rest of the World since the translation in 1965 of Ušakov's (1955) fauna, whereas *tenuissima* has not been used by any author other than Ørsted. In western Europe between 1844 and 1965 this common species was misidentified as either *M. heeri* or *M. danielsseni*, which are clearly distinct species, or left unidentified as *Myriochele* sp. It is pertinent to note here that among all tubicolous polychaetes the genus *Myriochele* is notorious for the extreme difficulty by which the animals can be removed uninjured from their tubes. Even when the animals are secured free from their tubes, the characters are hard to establish. Our 1985 paper on the Scandinavian and Arctic OWENIIDAE is partly based on scanning electron micrographs of the morphological structure. *M. oculata* is one of the most abundant macrofauna species in Norwegian fjords, and the suppression of *tenuissima* Ørsted, 1844 is requested for the sake of stability.

10. Dr Mary E. Petersen (pers. comm.) has pointed out the existence in the Zoologisk Museum, Copenhagen, of a drawing of *C. tenuissima* probably made by

Thornam, and probably from sketches by Ørsted. The drawing has a hand written legend, but there is no manuscript that can be connected with it and it does not constitute publication under the Code. The drawing has a striking resemblance to that published by us of *oculata* in 1985 (p. 24, fig. 7), and confirms informally the synonymy of *C. tenuissima* and *M. oculata*.

11. There can be little doubt that *Clymenia*, *Psammocollus* and *Myriochele* are the same genus. Unfortunately, because various authors have given the date of publication for *Psammocollus* as either 1867 (Webster & Benedict, 1877; Southern, 1921) or 1868 (Hartman, 1959; Fauchald, 1977; Nilsen & Holthe, 1985) the synonymy between it and *Myriochele* has generally been overlooked.

12. The genus *Galathowenia* Kirkegaard, 1959 (type species *G. africana* Kirkegaard, 1959 by monotypy) is considered by us (1985) and by Blake & Dean (1973) to be a further synonym of *Myriochele*. This is however a subjective judgement on a junior nominal taxon and should not affect the current problem.

13. Strict application of the Code would require accepting the name *Clymenia* Ørsted or *Psammocollus* Grube for the species currently included in *Myriochele* Malmgren. This would necessitate new combinations for 15 species and would alter the widely accepted nomenclature of these taxa. The Secretariat holds a list of twelve central works on polychaete taxonomy and ecology in which *Myriochele* is preferred to *Clymenia* and *Psammocollus*. Conservation of the name *Myriochele* is therefore essential in order to maintain nomenclatural stability for this cosmopolitan genus which includes some of the most abundant species of the marine level-bottom fauna. As far as we know, the names *Clymenia* and *Psammocollus* have been unused for at least the last 50 years.

14. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) To use its plenary powers to suppress the following names for the purposes of the Principle of Priority but not for those of the Principle of Homonymy:
 - (a) the generic names:
 - (i) *Clymenia* Ørsted, 1844;
 - (ii) *Psammocollus* Grube, 1866;
 - (b) the specific name *tenuissima* Ørsted, 1844, as published in the binomen *Clymenia tenuissima*;
- (2) to place on the Official List of Generic Names in Zoology the name *Myriochele* Malmgren, 1867 (gender: feminine), type species by monotypy *Myriochele heeri* Malmgren, 1867;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *heeri* Malmgren, 1867, as published in the binomen *Myriochele heeri* (specific name of the type species of *Myriochele* Malmgren, 1867);
 - (b) *oculata* Zaks, 1923, as published in the binomen *Myriochele oculata*;
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the following names:
 - (a) *Clymenia* Ørsted, 1844, as suppressed in (1) (a) (i) above;
 - (b) *Psammocollus* Grube, 1866, as suppressed in (1) (a) (ii) above;
- (5) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *tenuissima* Ørsted, 1844 as published in the binomen *Clymenia tenuissima* and as suppressed in (1) (b) above.

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Case 2637

***Buthus vittatus* (currently *Centruroides vittatus*; Arachnida, Scorpionida): proposed recognition of Wood (1863) as author of the specific name and designation of a neotype, and *Centrurus hentzi* (currently *Centruroides hentzi*) Banks, 1904: proposed conservation of the specific name**

Scott A. Stockwell

Department of Entomology, University of California, Berkeley, CA 94720, U.S.A.

Herbert W. Levi

Museum of Comparative Zoology, Harvard University, Cambridge, MA 02138, U.S.A.

Abstract. The purpose of this application is the stabilization of names of North American scorpions which have in the past been misidentified. Say (1821) is commonly cited as the author of *Centruroides vittatus*, a Texas species, but he gave the name *vittatus* to the Florida scorpion now known as *C. hentzi* Banks, 1904. The Texas species was described by H. C. Wood (1863), who misidentified it as *Scorpio carolinianus* Beauvois, 1805 and gave *Buthus vittatus* Say in synonymy.

1. Say (1821, p. 61) described *Buthus vittatus* from the coastal islands of Georgia and Florida. Supposedly deposited in the Philadelphia Academy of Sciences, the types of *Buthus vittatus* cannot be located (Dr A. E. Bogan, Philadelphia Academy of Sciences, pers. comm.). Say apparently took them with him to a commune in New Harmony, Indiana, where they were destroyed by fire (Ms E. Benamy, Philadelphia Academy of Sciences, pers. comm.).

2. Wood (1863, p. 363), thinking that he was dealing with *Scorpio carolinianus* Palisot de Beauvois, 1805, listed *Buthus vittatus* Say, 1821 as a junior synonym of *Buthus carolinianus*. Wood was describing specimens of a new species from Texas and had never seen specimens of *S. carolinianus* or *B. vittatus*. While Pocock (1902, p. 24) recognized that Wood had misidentified the Texas species by referring it to *Scorpio carolinianus*, he (p. 25), Ewing (1928, p. 19) and Comstock (1940, p. 27) continued to recognize the Texas species as *Centruroides vittatus* (Say, 1821), a much less apparent misidentification.

3. Although lacking several important taxonomic characters, the original description of *B. vittatus* Say, 1821 is sufficient to determine the identity of the taxon. The fact that Say had collected the type series from the coastal islands of southern Georgia and northern Florida further indicates that he had described the taxon currently known as *Centruroides hentzi* (Banks, 1904), as this is the only species which occurs in that area. The taxon presently recognized as *Centruroides vittatus* is rarely found east of the Mississippi River and certainly is not indigenous to Florida or Georgia.

4. Banks (1904, p. 142) described *Centrurus hentzi* from Florida. The name *hentzi*, in combination with *Centrurus* or *Centruroides*, is that in use for this scorpion, and a list of 13 representative references has been given to the Commission Secretariat. The name *vittatus* Say, 1821 has not been used for the species by authors of recent times who have distinguished the Texas and Florida taxa.

5. The name *vittatus* (with Say, 1821 being cited as the author) has been applied to the Texas species, in combination with *Centrurus* or *Centruroides*, in a very large number of papers: a list of 50 references between 1888 and 1987 and a detailed account are held by the Commission Secretariat.

6. Following the Principle of Priority strictly, *vittatus* Say, 1821 is the senior subjective synonym of *hentzi* Banks, 1904, and the Texas species currently known as *vittatus* should be referred to by its otherwise oldest synonym (*Centruroides chisosarius* Gertsch, 1939, now considered to be merely a color variant of *vittatus* sensu Wood). These changes would greatly upset stability and create confusion.

7. According to the guidelines given in Article 79 of the Code, accepted usage clearly does not warrant the application now of *vittatus* Say, 1821 to the Florida taxon, and *hentzi* Banks, 1904 should continue to be treated as the valid specific name. Usage of the name *vittatus* warrants its continued application to the Texas scorpion. Thus, there is a conflict between the need to suppress *vittatus* Say, 1821 to allow the continued use of *hentzi* Banks, 1904, and the retention of the name *vittatus* for the Texas species.

8. Since the species currently called *vittatus* is different from that so named by Say (1821), and Say's types have long been destroyed, we propose that the authorship of *Buthus vittatus* be attributed to Wood (1863), since it was he who first described the taxon and applied the name to it (although in erroneous synonymy with *B. carolinianus*). There are specimens in the U.S. National Museum which may have been labelled by Wood, but their type status is doubtful and they are poorly preserved and difficult to recognize. We propose the designation of a neotype of *B. vittatus* sensu Wood.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the name *vittatus* Say, 1821, as published in the binomen *Buthus vittatus*, and all uses of that name before that by Wood (1863), for the purposes of both the Principle of Priority and the Principle of Homonymy;
- (2) to use its plenary powers to rule that the name *vittatus* Wood, 1863, as published in the binomen *Buthus vittatus*, is an available name;
- (3) to use its plenary powers to designate as the neotype of *Buthus vittatus* Wood, 1863 the adult male specimen labelled '*Buthus vittatus* Wood, 1863, NEOTYPE, Det. S.A. Stockwell', from 'Brackettville, Kinney Co., Texas, 21 May 1984 (S. A. Stockwell)' which is deposited in the U.S. National Museum, Washington, D.C.;
- (4) to place the following names on the Official List of Specific Names in Zoology:
 - (a) *hentzi* Banks, 1904, as published in the binomen *Centrurus hentzi*;
 - (b) *vittatus* Wood, 1863, as published in the binomen *Buthus vittatus*, as ruled to be available in (2) above and as defined by the neotype designated in (3) above;
- (5) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *vittatus* Say, 1821, as published in the binomen *Buthus vittatus* and as suppressed in (1) above.

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Case 2711

***Shoemakerella* Pirlot, 1936 (Crustacea, Amphipoda): proposed designation of *Lysianax cubensis* Stebbing, 1897 as the type species**

J. K. Lowry & H. E. Stoddart

Australian Museum, P.O. Box A285, Sydney South, NSW 2000, Australia

Abstract. The purpose of this application is the designation of the nominal species *Lysianax cubensis* Stebbing, 1897 as the type species of *Shoemakerella* Pirlot, 1936, a genus of lysianassoid amphipod. The original designation was of a misidentified species. This proposal maintains *Shoemakerella* in its original meaning.

1. Pirlot (1936, p. 264) established the genus *Shoemakerella* and designated *Lysianassa nasuta* Dana, 1853 (p. 915) as the nominal type species, with *Lysianax cubensis* Stebbing, 1897 (p. 29) as a junior subjective synonym.

2. For the reasons given below we believe that Pirlot based his diagnosis of the genus on a misidentified type species, and we refer the case to the Commission in accordance with Article 70b of the Code.

3. *Lysianassa nasuta* was described from material collected at Rio de Janeiro by the U.S. Exploring Expedition 1838–1842. The type material is considered lost (T. Bowman, U.S. National Museum of Natural History, in litt.) and the species has not been re-collected from Rio de Janeiro despite recent attempts to find it (J. L. Barnard and J. D. Thomas, in litt.).

4. *Lysianax cubensis* was described from a single specimen in the Zoologisk Museum, Copenhagen, collected in Cuba. This type is also considered lost (T. Wolff, Zoologisk Museum, Copenhagen, in litt., and J. Ellis, British Museum (Natural History), in litt.). *Lysianax* Stebbing, 1888 is an unnecessary replacement name for *Lysianassa* H. Milne Edwards, 1830.

5. Shoemaker (1935) pointed out that *Lysianassa cubensis* had been misidentified as *Lysianopsis alba* Holmes, 1904. He recorded *L. cubensis* from Puerto Rico and Florida and re-illustrated some parts.

6. Pirlot (1936, pp. 256, 265) stated that he had identified *Lysianopsis alba* from material collected at Rio de Janeiro and this led him to think that perhaps *Lysianopsis alba* was a synonym of *Lysianassa nasuta*. He had written to Shoemaker about this possibility. Shoemaker sent material of *Lysianopsis alba* and *Lysianassa cubensis* to Pirlot, and replied that he [Shoemaker] had overlooked Dana's *Lysianassa nasuta* and that in his opinion *L. cubensis* was a junior synonym of *L. nasuta*.

7. A comparison of the third uropods in the original illustrations of *L. nasuta* and *L. cubensis* is sufficient to show, however, that they are not conspecific. In *L. cubensis* the peduncle of uropod 3 is short, with a strong lateral flange, and the rami are short and strongly tapered; in *L. nasuta* the peduncle is longer, the flange is absent and the rami are longer and more cylindrical.

8. In his diagnosis of the genus *Shoemakerella* Pirlot (1936, p. 265) described uropod 3 as "court, présentant du côté externe et dorsal une expansion lamellaire". This description fits *L. cubensis* but not *L. nasuta*. The diagnosis also described antenna 2 as being the same in both sexes, "(d'après Shoemaker)", a character not reported for *L. nasuta* and known only from Shoemaker's (1935, p. 234) report of *L. cubensis*. In designating the type species of *Shoemakerella* Pirlot wrote "*Shoemakerella nasuta* Dana, espèce redécrite ensuite par Stebbing sous le nom de *Lysianax cubensis*." The conclusion is inescapable that Pirlot's genus was in fact based on Stebbing's figures of *L. cubensis* and the *L. cubensis* material sent to him by Shoemaker.

9. The species described by Dana as *Lysianassa nasuta* remains obscure. However, there is sufficient evidence to show that it does not fit Pirlot's concept of *Shoemakerella* and probably belongs in either *Lysianopsis* or *Lysianassa*.

10. *Shoemakerella* has twice been placed in synonymy: with *Lysianopsis* Holmes, 1904 by Hurley (1963, pp. 70, 73), and with *Lysianassa* Milne Edwards, 1830 by Barnard (1969, p. 175). Both Hurley and Barnard specifically stated that their concept of *Shoemakerella* was based on *L. cubensis*.

11. We consider Pirlot's concept of *Shoemakerella*, based not on the nominal type species *Lysianassa nasuta* Dana, 1853 but on actual specimens of *Lysianax cubensis* Stebbing, 1897, to represent a valid genus. We have several new species which should be assigned to this genus and we know of at least one other worker in a similar situation.

12. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all previous designations of type species for the nominal genus *Shoemakerella* Pirlot, 1936, and to designate as the type species *Lysianax cubensis* Stebbing, 1897;
- (2) to place on the Official List of Generic Names in Zoology the name *Shoemakerella* Pirlot, 1936 (gender: feminine), type species by designation in (1) above *Lysianax cubensis* Stebbing, 1897;
- (3) to place on the Official List of Specific Names in Zoology the name *cubensis* Stebbing, 1897, as published in the binomen *Lysianax cubensis* (specific name of the type species of *Shoemakerella* Pirlot, 1936).

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Case 2685

Corisa verticalis Fieber, 1851 (currently *Trichocorixa verticalis*; Insecta, Heteroptera): proposed conservation of the specific name

Antti Jansson

Zoological Museum, University of Helsinki, P. Rautatiekatu 13,
SF-00100 Helsinki, Finland

Abstract. The purpose of this application is to conserve the specific name of the water-boatman species *Corisa verticalis* Fieber, 1851 by the suppression of the unused senior subjective synonym *Sigara lineata* Fabricius, 1787.

1. Forster (1771, p. 70) described *Notonecta lineata* from the New York area. This species is currently known as *Sigara* (*Lasiosigara*) *lineata* (Forster) (cf. Hungerford, 1948, p. 645).

2. Fabricius (1787, p. 276) described *Sigara lineata* from Cajennae (= Surinam). Jansson (1986, p. 21) discovered one syntype of this species in the Fabricius collection (Copenhagen), and was able to identify it as conspecific with *Trichocorixa verticalis verticalis* (Fieber), originally described by Fieber (1851, p. 24; 1852, p. 236) as *Corisa verticalis* from Pennsylvania. Since *Sigara lineata* Fabricius, 1787 is no longer congeneric with *Sigara lineata* (Forster, 1771), the former name cannot be rejected as a junior secondary homonym (Article 59c of the Code).

3. The most recent reference to the name *Sigara lineata* Fabricius, 1787 seems to be Kirkaldy (1897, p. 240), who for reasons of homonymy replaced *Sigara lineata* Fieber (1844, p. 15; 1845, p. 293) with *S. m-notata*, with a note "(nec. Fab.)"; this species is currently known as *Micronecta m-notata* (Kirkaldy). Quite surprisingly, Hungerford (1948) totally omitted mention of *S. lineata* Fabricius from his monograph of the CORIXIDAE of the western hemisphere.

4. Being available, *Sigara lineata* Fabricius, 1787 has priority over *Corixa verticalis* Fieber, 1851. However, resurrecting this long unused senior synonym would cause considerable confusion, because *Trichocorixa verticalis* (Fieber) is well known in the recent literature (a comprehensive list of 15 references is held by the Secretariat).

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the specific name *lineata* Fabricius, 1787, as published in the binomen *Sigara lineata*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *verticalis* Fieber, 1851, as published in the binomen *Corisa verticalis*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *lineata* Fabricius, 1787, as published in the binomen *Sigara lineata* and as suppressed in (1) above.

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Case 2678

***Curculio viridicollis* Fabricius, 1792 (currently *Phyllobius viridicollis*; Insecta, Coleoptera): proposed conservation of the specific name, and *Rhyncolus* Germar, 1817: proposed designation of *Curculio ater* Linnaeus, 1758 as the type species**

R. T. Thompson

*Department of Entomology, British Museum (Natural History),
Cromwell Road, London SW7 5BD, U.K.*

Abstract. The purpose of this application is to conserve the specific name of the leaf weevil *Phyllobius viridicollis* (Fabricius, 1792). The name is threatened by the hitherto misidentified senior subjective synonym *Curculio cloropus* Linnaeus, 1758. The originally designated type species of *Rhyncolus* Germar, 1817 was based on a previous misidentification of *C. cloropus* and it is proposed that *Curculio ater* Linnaeus, 1758 be formally designated, in accordance with Germar's intention and subsequent usage. Both *viridicollis* and *ater* occur commonly in central and northern Europe.

1. The name *Curculio cloropus* was established by Linnaeus (1758, p. 385) but has been misapplied by all subsequent authors. Its true identity as a senior synonym of *C. viridicollis* Fabricius, 1792 was recently established (Thompson & Alonso-Zarazaga, 1988, p. 84) by examining the syntypes in the collection of the Linnean Society of London. A female lectotype and male paralectotype were designated by Thompson & Alonso-Zarazaga (1988, p. 84).

2. The name *Curculio viridicollis* was proposed by Fabricius in 1792 (p. 469). The species has always been correctly interpreted and has no junior synonyms, subspecies or varieties. I have examined the two syntype specimens, kindly lent to me by Dr O. Martin from the University Zoological Museum, Copenhagen, and found they conform with the customary interpretation of the species. The species, now included in the genus *Phyllobius* Germar, 1824, is a leaf weevil which occurs commonly in central and northern Europe. The adult has been found on a wide variety of plants, both herbaceous and woody. It has been recorded as a pest of fruit trees (Dieckmann, 1980, p. 206) and of forest trees (Schindler, 1974, p. 269). Fifty references to this species are listed by Lona (1938, p. 453).

3. In 1817 Germar (p. 340) designated '*Hylesinus cloropus* Fab.' as the type species of his new genus *Rhyncolus*. Fabricius's misuse of the name *cloropus* began in his work of 1787 (p. 117) in which he misidentified Linnaeus's *cloropus* and synonymized it with *Curculio ater* Linnaeus, 1758, a wood-boring weevil. This action has caused doubt and confusion ever since. The names *ater* and *cloropus* occur on the same page (Linnaeus, 1758, p. 385); a survey of 100 works on European Coleoptera showed that just over half have used *ater* as the valid name, while the remainder have used *cloropus* (sometimes spelled *chloropus*) for the same species (see Thompson & Alonso-Zarazaga, 1988,

p. 84). Olivier (1790, p. 540) did not accept the synonymy and it has been recognized by many subsequent authors that *cloropus* of Fabricius is not the same species as *cloropus* Linnaeus, 1758, and that it, and not *cloropus* Linnaeus, is synonymous with *Curculio ater* Linnaeus, 1758. *C. ater* is the valid name for the type species of *Rhyncolus*; a female lectotype was designated by Thompson & Alonso-Zarazaga (1988, p. 85) from syntypes in the collection of the Linnean Society of London. This species has a similar range to *Phyllobius viridicollis* and is equally prominent in the literature (see Csiki, 1936, p. 179). Both species have occurred together, and will continue to do so, in any comprehensive work on northern or central European weevils.

4. Clearly, to apply the name *cloropus* Linnaeus, 1758 to the species now known as *Phyllobius viridicollis* would inevitably cause grave confusion. This can be avoided, and stability of nomenclature maintained, by suppressing the name *cloropus* Linnaeus, 1758.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers:
 - (a) to suppress the specific name *cloropus* Linnaeus, 1758, as published in the binomen *Curculio cloropus*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (b) to set aside all previous designations of type species for the nominal genus *Rhyncolus* Germar, 1817 and to designate *Curculio ater* Linnaeus, 1758 as the type species;
- (2) to place on the Official List of Generic Names in Zoology the name *Rhyncolus* Germar, 1817 (gender: masculine), type species by designation in (1)(b) above *Curculio ater* Linnaeus, 1758;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *ater* Linnaeus, 1758, as published in the binomen *Curculio ater* (specific name of the type species of *Rhyncolus* Germar, 1817);
 - (b) *viridicollis* Fabricius, 1792, as published in the binomen *Curculio viridicollis*;
- (4) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *cloropus* Linnaeus, 1758, as published in the binomen *Curculio cloropus* and as suppressed in (1)(a) above.

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Case 2676

***Ochthebius* Leach, 1815 (Insecta, Coleoptera): proposed conservation of *Elophorus marinus* Paykull, 1798 as the type species**

M. Hansen

Department of Entomology, Zoologisk Museum, Universitetsparken 15,
DK 2100 København, Denmark

Abstract. The purpose of this application is to conserve *Elophorus marinus* Paykull, 1798 as the nominal type species of the water beetle genus *Ochthebius* Leach, 1815, since the first type species designation makes the genus a junior objective synonym of *Hydraena* Kugelann, 1794.

1. Leach (1815, pp. 95–96) erected the genus *Ochthebius* with two included species: (i) "*Hydraena riparia* Illiger, Latr." (with the synonyms "*Elophorus* [sic] *pygmaeus* [sic] Paykull", "*Elophorus* [sic] *minimus* Fabr." and "*Hydrophilus impressus* Marsham") and (ii) "*Elophorus marinus* Paykull" (with the synonyms "*Hydraena margipalleus* Latr." and "*Hydrophilus margipalleus* Marsh."). No type species was designated by Leach.

2. The first designation of a type species was by Brullé (1835, p. 308) who designated "*Ochthebius riparius* Illig." (with the synonyms "*Hydraena riparia*" and "*Elophorus pygmaeus* Gyllenh."). However, *Hydraena riparia* was not described as a new species by Illiger, which is obvious from his (1798, p. 279) reference to "Kugelann.Schneid. M.579", so the species is really *Hydraena riparia* Kugelann, 1794. This species is the type species of *Hydraena* Kugelann, 1794 by monotypy. Thus although Leach and Brullé wrongly attributed Kugelann's species, *Ochthebius* is formally a junior objective synonym of *Hydraena*, a name in current use and the type genus of the HYDRAENIDAE.

3. Other authors, e.g. Hope (1839, p. 148), Westwood (1840, p. 9), Chenu (1853, p. 239) and Thomson (1859, p. 15), have designated what they apparently considered to be the same species as the type species of *Ochthebius*, but under the name *pygmaeus* Fabricius. These designations might be considered valid if Brullé's designation were to be suppressed, as Leach included *pygmaeus* Paykull as a synonym of *riparia*, and because Paykull (1798, p. 245) in his description of *pygmaeus* clearly refers to it as a Fabrician species ("Fabr.Ent.Syst.I.p.205.7 . . ."). Also Gyllenhal (1808, p. 133) clearly credits "his" *pygmaeus* (cf. para. 2) to Fabricius ("Fabr.syst.eleut.I.278.7"). Thus, according to the designation of Hope, followed by subsequent authors mentioned above, the type of *Ochthebius* would be *Elophorus pygmaeus* Fabricius, 1792. Unfortunately this was also a misidentified species, which later was identified as *Helophorus granularis* (Linnaeus, 1761), as confirmed by Angus (1969, p. 3).

4. Kuwert (1887) divided *Ochthebius* into a number of subgenera, placing *pygmaeus* Gyllenhal (with the synonyms "*riparius* Ill." and "*impressus* Bedl.") in a new subgenus *Homalochthebius* (p. 383), and *marinus* Paykull in *Ochthebius sensu stricto* (p. 384).

Perkins (1980, pp. 293, 388) indicated that *Homalochthebius* should be synonymised with the subgenus *Asiobates* Thomson, 1859, but he still maintained this and *Ochthebius* s.str. as separate subgenera.

5. Knisch (1924, p. 7) designated *Hydrophilus impressus* Marsham, 1802 as the type species of *Ochthebius*, but quite inconsistently he followed Kuwert in placing this species in *Homalochthebius* (p. 17) and *marinus* Paykull in *Ochthebius* s.str. (p. 27).

6. In an attempt to conserve the accustomed usage of the subgeneric names Orchymont (1942, p. 2) designated *Elophorus marinus* Paykull, 1798 as the type species of *Ochthebius*.

7. The name *Ochthebius* Leach has now been used for more than 150 years for a well known and widely distributed water beetle genus, comprising more than 300 described species. Some authors have separated the two originally included species into different subgenera (of *Ochthebius*, with wrong priority since *Hydraena* is senior), with *marinus* consistently placed in *Ochthebius* s.str. A list of 15 representative references is held by the Commission Secretariat.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress all designations of type species for the nominal genus *Ochthebius* Leach, 1815 prior to that by Orchymont (1942) of *Elophorus marinus* Paykull, 1798;
- (2) to place on the Official List of Generic Names in Zoology the name *Ochthebius* Leach, 1815 (gender: masculine), type species by subsequent designation by Orchymont (1942) *Elophorus marinus* Paykull, 1798, as ruled in (1) above;
- (3) to place on the Official List of Specific Names in Zoology the name *marinus* Paykull, 1798, as published in the binomen *Elophorus marinus* (specific name of the type species of *Ochthebius* Leach, 1815).

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Case 2702

***Culex stigmatosoma* Dyar, 1907 and *C. thriambus* Dyar, 1921 (Insecta, Diptera): proposed conservation of the specific names by the suppression of *C. peus* Speiser, 1904**

Bruce F. Eldridge

Department of Entomology, University of California, Davis, CA 95616, U.S.A.

Ralph E. Harbach

Walter Reed Biosystematics Unit, Museum Support Center, Smithsonian Institution, Washington, D.C. 20560, U.S.A.

Abstract. The purpose of this application is to stabilize the name of the important American 'banded foul-water mosquito' as *Culex stigmatosoma* Dyar, 1907, and also that of the species known as *C. thriambus* Dyar, 1921. A strict application of the Code would lead to confusion in the names of both species.

1. Speiser (1904, p. 148) published the name *Culex peus* as a replacement for *Culex affinis* Adams, 1903 (p. 25) [preoccupied by *Culex affinis* Stephens, 1825 (p. 452)]. He selected 'peus' as the Greek equivalent of the Latin 'affinis'. Adams had described this species from Oak Creek Canyon, Arizona.

2. Dyar (1907, p. 121) described *Culex stigmatosoma* from specimens collected in Pasadena, California. Its range extends from the western United States to northern South America (Knight & Stone, 1977, p. 216). In California, it is commonly known as the 'banded foul-water mosquito' (Bohart & Washino, 1978, p. 125); it is a common pest, and probably plays a role in arbovirus disease ecology. Stone (1958, p. 236) compared the types of *C. stigmatosoma* and *C. peus* and concluded that they were conspecific. He accordingly synonymized *C. stigmatosoma* under *C. peus*, and the latter name gradually entered general use (see below).

3. Dyar (1921, p. 33) published the name *Culex thriambus*, based on specimens collected in Kerrville, Texas. The range of this species is southwestern U.S. to northern Central America (Knight & Stone, 1977, p. 225).

4. Strickman (1988a, p. 484) re-examined the holotype of *C. affinis* Adams (i.e. *C. peus*) in much greater detail than had Stone (1958, p. 236) and concluded that it was not conspecific with *C. stigmatosoma*, but rather with *C. thriambus*. As a consequence, he synonymized *C. thriambus* under *C. peus*, and resurrected *C. stigmatosoma* for the 'banded foul-water mosquito'.

5. This action has had one very serious negative consequence. It transferred the name *C. peus* from the 'banded foul-water mosquito', where it has been used in public health, ecological, and taxonomic literature for 30 years (1958–1988), to the southwestern species previously known as *C. thriambus* for 67 years (1921–1988). The

strict application of the Code in this way would cause enormous confusion in non-taxonomic literature and in literature indexes. For example, just in the Nowell Index to proceedings and papers of the California Mosquito and Vector Control Association (Nowell, 1982, p. 102) the name *Culex peus* (for the banded species) is cited at least 125 times. It would be nearly impossible for one doing literature searches to know which species bearing the name *C. peus* was being referred to, other than by implication from the date of publication. Furthermore, the use and construction of keys to western U.S. mosquito species in the public health literature would become complex and confusing.

6. This problem can be alleviated by suppressing the name *Culex peus*. Thus the name of the 'banded foul-water mosquito' would become *C. stigmatosoma*, as it was for 51 years (1907–1958), and *C. thriambus* would remain as the name for the southwestern species. This action will have the advantage of stabilizing the name *C. thriambus* for a well established species concept.

7. We considered a course which would have had the effect of preserving the 1958–1988 usage of the names *peus* and *thriambus*. This would have involved designating the holotype of *C. stigmatosoma* as a neotype of *C. peus*, using the Commission's plenary powers to set aside the holotype of the latter. We discarded this course for the following reasons:

(1) *Culex stigmatosoma* is a well described and aptly named Dyar species. *Culex peus* is a replacement name which is not in any way descriptive of the species, and is only 3 years senior to *stigmatosoma*.

(2) Much more importantly, and as stated in para. 5, because of the published realignment of names by Strickman (1988a, 1988b) the name *C. peus* henceforth would be subject to confusion. There would be no such confusion from conservation of the names *C. stigmatosoma* and *C. thriambus*. Name changes are nearly always unpopular with applied biologists, and the 1958 change in the name of the 'banded foul-water mosquito' to *C. peus* was only slowly accepted. However, with the appearance of the Strickman (1988a) paper, the name *C. stigmatosoma* has been quickly re-adopted in the economic literature. The *Proceedings of the California Mosquito and Vector Control Association* (Glenn Yoshimura, Editor, personal communication), the *Journal of Medical Entomology* (W. K. Reisen, Editor, personal communication), and the *Journal of the American Mosquito Control Association* (Ronald A. Ward, Editor, personal communication) all now use *Culex stigmatosoma* as a matter of editorial policy. We conclude that to attempt to go back to the 1958–1988 use of *Culex peus* at this point would create needless confusion.

8. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the specific name *peus* Speiser, 1904, as published in the binomen *Culex peus*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *stigmatosoma* Dyar, 1907, as published in the binomen *Culex stigmatosoma*;
 - (b) *thriambus* Dyar, 1921, as published in the binomen *Culex thriambus*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *peus* Speiser, 1904, as published in the binomen *Culex peus* and as suppressed in (1) above.

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Case 2694

***Exoprosopa* Macquart, 1840 (Insecta, Diptera): proposed confirmation of *Anthrax pandora* Fabricius, 1805 as the type species**

Neal L. Evenhuis

Gressitt Center for Research in Entomology, Department of Entomology, Bishop Museum, PO Box 19000-A, Honolulu, Hawaii 96817, U.S.A.

David J. Greathead

CAB International Institute of Biological Control, Imperial College, Silwood Park, Ascot, Berks., SL5 7TA, U.K.

Abstract. The purpose of this application is the confirmation of *Anthrax pandora* Fabricius, 1805 as the type species of the bombyliid fly genus *Exoprosopa* Macquart, 1840. This is in accordance with general usage; an overlooked designation of *E. audouinii* Macquart, 1840 would disturb the meanings of *Exoprosopa* and *Ligyra* Newman, 1841.

1. *Exoprosopa* Macquart, 1840 (p. 35) was originally established for 41 nominal species, some of which are now placed in other genera of the family BOMBYLIIDAE, commonly known as bee flies. *Exoprosopa* is a genus whose immatures are parasitoids of other holometabolous insects, primarily Hymenoptera [see DuMerle (1975) for an exhaustive list of hosts]. The concept of this genus has been primarily restricted to those anthracine bombyliid species with a subbasal tooth on the tarsal claw and the presence of three submarginal cells in the wing. The first type species designation in accordance with this usage was by Coquillett (1910, p. 544) of *Anthrax pandora* Fabricius, 1805.

2. Although recently many species of *Exoprosopa* have been removed to other genera (Bowden, 1975, 1980), there still remain over 400 species in this cosmopolitan genus, which is the type genus for the bombyliid subfamily EXOPROSOPINAE Becker, 1913 (considered by some as a tribe within the subfamily ANTHRACINAE). The genus has been in common usage since its original description and its concept following Coquillett's type species designation has been widely accepted. A list of 18 representative references is held by the Commission Secretariat.

3. An earlier designation by Duponchel (1845, p. 545), one that had been previously overlooked, gave *Exoprosopa audouinii* Macquart, 1840, the first species listed under *Exoprosopa* by Macquart (1840), as the type species. *Exoprosopa audouinii* is considered a typical member of the pantropical genus *Ligyra* Newman, 1841 (e.g., Bowden, 1975b; Evenhuis, 1989). Acceptance of Duponchel's designation would place *Exoprosopa* as a senior subjective synonym of *Ligyra* and result in about 100 new combinations. *Litorhynchus* Macquart, 1840, a little-known generic name with a taxonomically confusing history (see Bowden, 1975a), would be the next available name for

those species previously placed in *Exoprosopa* sensu Coquillett, and such usage would result in hundreds of new combinations.

4. As *Exoprosopa* Macquart, 1840 has been the name consistently used for species in this widely distributed genus since its original description, and its concept sensu Coquillett (1910) is widely accepted, we consider that the general current usage should be maintained.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all type species designations for *Exoprosopa* Macquart, 1840 before that by Coquillett (1910) of *Anthrax pandora* Fabricius, 1805;
- (2) to place on the Official List of Generic Names in Zoology the name *Exoprosopa* Macquart, 1840 (gender: feminine), type species by subsequent designation by Coquillett (1910) *Anthrax pandora* Fabricius, 1805;
- (3) to place on the Official List of Specific Names in Zoology the name *pandora* Fabricius, 1805, as published in the binomen *Anthrax pandora* (specific name of the type species of *Exoprosopa* Macquart, 1840).

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Case 2719

***Musca heraclei* Linnaeus, 1758 (currently *Euleia heraclei*; Insecta, Diptera): proposed conservation of *heraclei* as the correct spelling of the specific name**

I. M. White

*CAB International Institute of Entomology, 56 Queen's Gate,
London SW7 5JR, U.K.*

P. R. Seymour

*Ministry of Agriculture, Fisheries and Food, Harpenden Laboratory,
Hatching Green, Harpenden, Herts. AL5 2BD, U.K.*

Abstract. The purpose of this application is the conservation of the established spelling of the specific name of the celery fly, *Euleia heraclei* (Linnaeus, 1758), a pest species. Linnaeus published the name, which is derived from the host plant *Heracleum*, as *heraclii*, but following Fabricius (1794) it has always been spelled *heraclei*.

1. Linnaeus (1758, p. 600) described *Musca heraclii*, with the information '*Habitat in foliis, Heraclii; subcutanea*'. This matches the habits of the celery fly, which as a larva mines the leaves ('foliis subcutanea') of many Apiaceae (= Umbelliferae), including members of the genus *Heracleum* Linnaeus. The original spelling *heraclii* has been used only by Linnaeus (1761, p. 461; 1767, p. 998).

2. In the first subsequent use of the name (Fabricius, 1794, p. 354) the *-ii* was replaced by *-ei* and the name spelt *heraclei*, the correct genitive of *Heracleum*. Although there has been some doubt as to whether Fabricius had the same species before him as Linnaeus, the spelling *heraclei* has been used for the celery fly by all authors.

3. Attention was drawn to the discrepancy in spelling as a result of a recent catalogue by Foote (1984, p. 88) which misspelt the name with *-eii*, as *heracleii*; this error was subsequently copied by one of us (White, 1986, p. 159; 1987, p. 103; 1988, p. 37), but as far as we are aware it has not been copied by any other authors.

4. The celery fly is an important European pest of celery (*Apium graveolens* Linnaeus) and occasionally of related crops, such as carrot (*Daucus carota* Linnaeus), lovage (*Levisticum officinale* Koch), parsnip (*Pastinaca sativa* Linnaeus) and Russian cow parsnip (*Heracleum sosnowskyi* Maneden). The spelling *heraclei* has been used in all economic literature known to us, including the following:

Bevan (1966), control on celery in the UK;

Carden & Oakley (1983), recognition, biology and control on celery and parsnip in the UK;

Desroches (1972), recognition of parasitised pupae;

Isart (1979), general review and status on celery and carrots in Spain;

Jones & Jones (1984), damage, biology and control on celery and parsnip in the UK;

Kabysh (1979), control on Russian cow parsnip in the Moscow region;
 Leroi (1972; 1974; 1975a; 1975b; 1977), studies of mine formation, mating behaviour, and biology on celery in France;
 Spitzer (1964), biology, damage and parasites on parsnip and lovage in Czechoslovakia.

Taxonomic works using the spelling *heraclei* include the standard work on Palaearctic TEPHRITIDAE (Hendel, 1927, p. 97) and the British check list (Kloet & Hincks, 1976, p. 69):

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to rule that the correct spelling of the specific name *heraclii* Linnaeus, 1758, as published in the binomen *Musca heraclii*, is *heraclei*;
- (2) to place on the Official List of Specific Names in Zoology the name *heraclei* Linnaeus, 1758, ruled in (1) above to be the correct spelling of *heraclii*, as published in the binomen *Musca heraclii*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *heraclii* Linnaeus, 1758, as published in the binomen *Musca heraclii* (ruled in (1) above to be an incorrect original spelling of *heraclei* Linnaeus, 1758).

Acknowledgement

We are grateful to Dr A. Freidberg (Tel Aviv University) for drawing attention to the Linnaean spelling of the celery fly.

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Case 2688

***Callionymus pusillus* Delaroche, 1809 (Osteichthyes, Perciformes):
proposed conservation of the specific name**

Ronald Fricke

*Staatliches Museum für Naturkunde, Division of Ichthyology, Schloss
Rosenstein, D-7000 Stuttgart 1, Fed. Rep. Germany*

Abstract. The purpose of this application is to conserve the specific name of *Callionymus pusillus* Delaroche, 1809, a fish of the dragonet family CALLIONYMIDAE. The name is threatened by the unused senior subjective synonym *C. dracunculus* Linnaeus, 1758.

1. *Callionymus dracunculus* was proposed by Linnaeus in 1758 (pp. 249, 250). Linnaeus' description ('*C. dorsalis prioris radiis corpore brevioribus*') was not very exact and he referred only to the descriptions of the previous authors Artedi (1738) and Gronovius (1754). He probably did not examine any specimens as nothing new was indicated; this is borne out by the fact that no material labelled as this species exists in the collections of the Linnean Society, London, or the Uppsala Museum. Wheeler (1958, p. 238) identified a specimen, No. 1853.11.12.13, in the Gronovius collection in the British Museum (Natural History), as a syntype of *C. dracunculus*. However, this specimen is *C. lyra* (see para. 2 below), as are two other specimens (Nos. 1853.11.12.11 and 1853.11.12.12) listed by Wheeler. A manuscript by Gronovius [1766–1777] on the fish collected and studied by him (see Wheeler, 1958, pp. 197–199), which is kept in the British Museum (Natural History) and which was edited and published by Gray (1854), includes *C. dracunculus* (Gronovius, p. 51 (subsequent pagination); Gray, p. 41) but gives no indication of specimens in Gronovius' collection, nor is there an illustration of the species.

2. In the past there has been confusion about the status of *C. dracunculus*. The name was repeated by Linnaeus in 1766 (p. 434) and used by Nardo (1827, p. 10), but this was only by reference to Linnaeus (1758) and without studying specimens. A few workers (Riedl, 1963, p. 539 and Haas & Knorr, 1965, p. 296) regarded the name as a senior synonym of *Callionymus maculatus* Rafinesque-Schmaltz, 1810 (p. 25, pl. 5, fig. 1). However, other authors (Muus & Dahlström, 1964, p. 136; Wheeler, 1973, p. 516; Bauchot & Pras, 1980, p. 340; Nakabo, 1982, pp. 79, 85; Müller, 1983, pp. 253, 254 and Fricke (in Whitehead et al.), 1986, p. 1089), have listed *C. maculatus* as a distinct species. Günther (1861, pp. 140–141) considered that *C. dracunculus* was a synonym of *C. lyra* Linnaeus (1758, p. 249) and referred to the work of earlier authors. *C. lyra* is a name in current use and the type species of *Callionymus* by subsequent designation by Jordan & Evermann (1917, p. 12). Subsequently, most authors treated *C. dracunculus* as a synonym of that species, including Lozano Rey (1960, p. 235), Svetovidov (1964, p. 382) and Wheeler (1973, p. 516).

3. Recently, during the course of a revisionary study of Atlantic CALLIONYMIDAE, my attention focused on the identity of *C. dracunculus*, which I had previously

mentioned in an earlier work (Fricke, 1982, p. 53). My first step was to check the original sources of Linnaeus' designation: Artedi (1738, part 3, p. 49 and part 4, p. 77) called the species '*Cottus pinna secunda dorsi alba*', and Gronovius (1754, pp. 21–23) named it '*Uranoscopus ossiculo primo pinnae dorsalis primae unciali*'. Both authors referred to the previous description of Rondeletius (1554, pp. 304–305), who named the species '*Dracunculus*', and Gronovius also referred to the subsequent citations of this description by Gesner (1620, p. 80, '*Dracunculus Aranei species altera*'), Willughby (1686, p. 136, pl. H6, no. 3) and others. Gesner first mentioned the species, as '*Dracunculus Aranei species*', in 1558 (pp. 61–62). Willughby, Artedi and Linnaeus gave the localities Genoa and Rome for the species.

4. An examination of the original description by Rondeletius (1554, p. 304) reveals that a male *Callionymus pusillus* Delaroche, 1809 was described and illustrated. Characteristic features are the second dorsal fin with very few rays (five or six) and anal fin with a greater number of rays, the very high second dorsal fin with all the rays filamentous, the small head, the long caudal fin and the vertical stripes along the sides of the body. Willughby clearly shows the low first and high second dorsal fin (the first dorsal fin is visible in Rondeletius' original illustration but not in the later copy of Gesner); this condition is only present in males of *C. pusillus* and cannot be confused with other species (*C. lyra* or *C. maculatus*). *C. dracunculus* Linnaeus, 1758 must therefore be treated as synonymous with *C. pusillus* Delaroche, 1809 and not with *C. lyra* Linnaeus, 1758. Wheeler (1973, p. 517) has previously noted that when Risso (1810, p. 104), Canestrini (1871, p. 178) and Moreau (1881, p. 172) used the name *C. dracunculus* they were, in fact, referring to *C. pusillus* and were not following Linnaeus.

5. *Callionymus pusillus* Delaroche, 1809 (pp. 315, 330, 331, fig. 16) was described from Ibiza, one of the Balearic Islands in the Mediterranean. I have examined the syntypes in the Muséum National d'Histoire Naturelle in Paris, numbered MNHN A1525 (two specimens). The name has been very frequently used, by at least 30 authors, the most recent authors including Wheeler (1973, p. 517), Bauchot & Pras (1980, p. 338), Nakabo (1982, p. 79) and Fricke et al. (1984, p. 107), and the species is common and widely distributed in the Mediterranean and Black Seas. Adoption now of Linnaeus' name *C. dracunculus* would cause quite unnecessary confusion and loss of stability in the nomenclature.

6. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the specific name *dracunculus* Linnaeus, 1758, as published in the binomen *Callionymus dracunculus*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Specific Names in Zoology the name *pusillus* Delaroche, 1809, as published in the binomen *Callionymus pusillus*;
- (3) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *dracunculus* Linnaeus, 1758, as published in the binomen *Callionymus dracunculus* and as suppressed in (1) above.

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Case 1173

***Muraena* Linnaeus, 1758 (Osteichthyes, Anguilliformes): proposed confirmation of *Muraena helena* Linnaeus, 1758 as the type species, so conserving *Anguilla* Shaw, 1803**

Ruth A. Cooper

The Secretariat, The International Commission on Zoological Nomenclature

Oliver A. Crimmen

Department of Zoology, British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.

Abstract. The purpose of this application is to conserve the name *Muraena* Linnaeus, 1758 in its accustomed usage for the familiar genus of moray eels by setting aside an overlooked type designation. The species *Muraena anguilla* Linnaeus, 1758, which was designated as type of *Muraena* by Bleeker in 1865, was later designated the type species of *Anguilla* Shaw, 1803. It is proposed that the earlier type designation be set aside to prevent the loss of the generic name *Anguilla* as a junior objective synonym, and to conserve both generic names in their accustomed usage. Both generic names are the basis of family-group names.

1. The generic name *Muraena* was introduced by Linnaeus (1758, p. 244) for 7 species including *helena* (p. 244, the first species named) and *anguilla* (p. 245). No type species was designated.

2. In 1865 (p. 113) Bleeker designated *Muraena anguilla* Linnaeus, 1758 as the type species of *Muraena*. This designation has been overlooked or ignored by subsequent workers.

3. The Commission voted in Opinion 77 (1922) to place *Muraena*, with *M. helena* as type, on the Official List of Generic Names in Zoology, but in 1956 the entry was withdrawn when it was realized that the earliest known designation was that of *M. anguilla* by Bleeker (1865). The then Secretary, F. Hemming, proposed that Bleeker's designation be set aside but was unable to proceed with the case.

4. Günther (1870, p. 96) did not specify a type for *Muraena*, but listed *M. helena* as the first of 76 species. Similarly, Kaup (1856, p. 55) listed *M. helena* as the first of 26 species but did not specify a type. However, it was customary for these cataloguers to list what they considered to be the type species first. The first designation of *Muraena helena* (as '*Muraena helenae* L.') as the type species of *Muraena* was made in 1882 by Jordan & Gilbert (p. 355). This is in accordance with the usage of *Muraena* over the last 200 years. A list of representative references using the names in the accustomed sense is held by the Secretariat.

5. In 1803 (p. 15) Shaw described the genus *Anguilla*, with type species *Muraena anguilla* Linnaeus by absolute tautonymy. *Anguilla anguilla* is the common eel of

European rivers. Shaw renamed the species *Anguilla vulgaris* (possibly to avoid tautonymy) and cited *M. anguilla* in synonymy.

6. *Muraena* Linnaeus, 1758 is the type genus of the family MURAENIDAE Rafinesque, 1815 (p. 93, correction of MURENIDA), which is currently understood to include the Common Moray of the Mediterranean, *M. helena*, and about 110 allied species in 12 genera (Nelson 1984, p. 105). These are predatory eels of tropical and sub-tropical seas, some of them very abundant and many of them exhibiting bold spotted or reticulated markings. Other distinguishing features include the muraenids' long fanglike teeth and the absence of scales and pectoral and pelvic fins. In contrast the anguillid eels have low villiform tooth patches, well developed pectoral fins, minute scales, and are never boldly coloured or marked.

7. The genus *Anguilla* Shaw, 1803 is the type genus of the family ANGUILLIDAE Rafinesque, 1815 (p. 91, correction of ANGUILLINIA). According to Tesch (1977, pp. 83–84) this family of fresh-water eels (usually catadromous) contains one genus and sixteen species.

8. Anguillid eels are important commercial and angling fishes. Tesch (1977, p. 329) discusses eel farming in Japan where it is more important than carp and trout farming. There is clearly an overwhelming case to set aside the earlier type designation for *Muraena*, to avoid confusion. If this action is not taken, the generic name *Anguilla* would be lost as a junior objective synonym and the generic name *Muraena* would be transferred from the morays to the freshwater eels, necessitating a new name for the morays and throwing anguilliform nomenclature into extreme confusion.

9. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to set aside all designations of type species for the nominal genus *Muraena* Linnaeus, 1758 prior to that by Jordan & Gilbert (1882) of *Muraena helena* Linnaeus, 1758;
- (2) to place on the Official List of Generic Names in Zoology the following names:
 - (a) *Anguilla* Shaw, 1803 (gender: feminine), type species by absolute tautonymy *Muraena anguilla* Linnaeus, 1758;
 - (b) *Muraena* Linnaeus, 1758 (gender: feminine), type species by subsequent designation by Jordan & Gilbert (1882) *Muraena helena* Linnaeus, 1758, as ruled in (1) above;
- (3) to place on the Official List of Specific Names in Zoology the following names:
 - (a) *anguilla* Linnaeus, 1758, as published in the binomen *Muraena anguilla* (specific name of the type species of *Anguilla* Shaw, 1803);
 - (b) *helena* Linnaeus, 1758, as published in the binomen *Muraena helena* (specific name of the type species of *Muraena* Linnaeus, 1758).

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Case 2684***Haplocanthosaurus* Hatcher, 1903 (Reptilia, Saurischia): proposed conservation**

Spencer G. Lucas & Adrian P. Hunt

New Mexico Museum of Natural History, P.O. Box 7010, Albuquerque,
New Mexico 87194, U.S.A.

Abstract. The purpose of this application is the conservation of the Jurassic dinosaur name *Haplocanthosaurus* Hatcher, 1903 by suppression of the unused senior objective synonym *Haplocanthus* Hatcher, 1903.

1. The generic name *Haplocanthus* was established on 21 February 1903 by Hatcher (1903a, p.1) for a Jurassic sauropod dinosaur from Colorado, the type species by monotypy being *Haplocanthus priscus* Hatcher (1903a, p. 1).

2. On 25 June 1903, Hatcher (1903b, p. 100), noting that the name *Haplocanthus* was 'essentially preoccupied' by the name *Haplacanthus* Agassiz, 1845 (p. 114), a genus of acanthodian fish from the Devonian of Russia, proposed *Haplocanthosaurus* as a replacement name.

3. The name *Haplocanthosaurus* Hatcher, 1903 has been used in a number of textbooks, handbooks and catalogues such as Romer, 1966 (p. 370), Steel, 1970 (p. 66) and McIntosh, 1981 (p. 11) as well as in numerous papers (a representative list of 10 papers is held by the Secretariat). As far as we know, the name *Haplocanthus* Hatcher, 1903 has not been used as a valid name since 1903.

4. Under Article 56(b) of the Code, 'even if the difference between two genus-group names is only one letter, these two names are not homonyms'. It follows that *Haplocanthus* is not a homonym of *Haplacanthus*, but is an available name and a senior but unused objective synonym of *Haplocanthosaurus*.

5. The International Commission on Zoological Nomenclature is accordingly asked:

- (1) to use its plenary powers to suppress the generic name *Haplocanthus* Hatcher, 1903 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
- (2) to place on the Official List of Generic Names in Zoology the name *Haplocanthosaurus* Hatcher, 1903 (gender: masculine), type species, by indication, *Haplocanthus priscus* Hatcher, 1903;
- (3) to place on the Official List of Specific Names in Zoology the name *priscus* Hatcher, 1903, as published in the binomen *Haplocanthus priscus* (specific name of the type species of *Haplocanthosaurus* Hatcher, 1903);
- (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Haplocanthus* Hatcher, 1903 as suppressed in (1) above.

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Case 2691

***Atheris* Cope, 1862 (Reptilia, Serpentes): proposed conservation, and proposed confirmation of *Vipera chlorechis* Pel, [1851] as the valid name of the type species**

Donald G. Broadley

Natural History Museum, Centenary Park, Selborne Avenue, Bulawayo, Zimbabwe

Abstract. The purpose of this application is to conserve the name *Atheris* Cope, 1862 for a genus of African tree or bush vipers. It is threatened by the unused senior subjective synonym *Chloroechis* Bonaparte, 1849. The name of the type species of *Atheris*, *Vipera chloroechis* Schlegel, 1855, is a junior subjective synonym of *V. chlorechis* Pel, [1851], and the valid specific name of the type species is thus *chlorechis* and not *chloroechis*.

1. In 1849, Bonaparte (p. 145, footnote) urged the prompt appearance of an unpublished catalogue by Temminck and Schlegel of zoological material in the Leiden museum. He briefly mentioned a number of the as yet undescribed species, including a new snake: 'In the Reptiles a new Viperine may be spoken of with great interest, constituting certainly an independent genus (*Chloroechis*, Schlegel) ... The green colour of this poisonous serpent from Ashantee [Ghana], as well as its forms, recall the Dendrophidinae, and make it, though a true Viperine, lead an arboreal life, and conceal its perfidious power among the foliage of the trees'. The name *Chloroechis* was listed by Neave (1939, p. 707) and by Sherborn (1925, p. 1243, where it was cited as a nomen dubium) and was correctly ascribed to Bonaparte, 1849 in both instances (Schlegel never published a generic name *Chloroechis*).

2. There were no species included in the genus, but subsequently Pel ([1851], p. 172) used the name *Vipera chlorechis*: 'Finally a sixth poisonous snake is found near the coast, *Vipera chlorechis*, which lives in the low lying areas on shrubbery. This species can be easily distinguished from the true tree snakes by its short thick-set shape and wide head' [translated from the Dutch]. In 1855, Schlegel himself published on the snake and, without reference to Pel, called it *Vipera chloroechis* (p. 317), recording it as a new species (p. 312). *V. chlorechis* Pel, [1851] is thus senior to *V. chloroechis* Schlegel, 1855 (as mentioned by Holthuis, 1968, pp. 25, 30–31), of which it is a subjective synonym. There is no doubt that Pel and Schlegel were referring to the same species.

3. The first volume of *Nederlandsch Tijdschrift voor Jagtkunde*, which included Pel's paper, is dated 1852. Holthuis, however, (1968, pp. 27, 30–31) cited the date for *V. chlorechis* as 1851; according to him (in litt. to the Commission Secretariat) the volume first appeared in monthly parts, the first 234 pages in 1851, the rest in 1852. Pel's paper (pp. 149–173) was apparently included in part 4–5 which was first published in November or December 1851.

4. The generic name *Atheris* was proposed by Cope (1862, p. 337) with two included species, *Toxicoa squamatus*, an unjustified emendation for *Echis squamigera* Hallowell, 1854, p. 193), and "Schlegel's *Vipera chlorocephalis*" (sic). No type species was designated.
5. Boulenger (1896, p. 508) rejected the generic name *Chloroechis* on the grounds that it was not properly defined; this may well be the correct view, but it is better to put the issue beyond doubt. Boulenger adopted the name *Atheris* for the African bush vipers and he has been followed by all subsequent authors.
6. Loveridge (1957, pp. 159, 303) drew attention to the fact that *Chloroechis* Bonaparte, 1849 was a senior subjective synonym of *Atheris* Cope, 1862 and considered that the earlier name should be suppressed. He stated that *Vipera chloroechis* Schlegel was the type species by tautonymy of *Chloroechis* Bonaparte (an error as *V. chloroechis* had never been included in *Chloroechis*), and stated that the same species was the type of *Atheris* 'by monotypy'; this was also an error, but constitutes a valid type species designation (Article 69a(iv) of the Code).
7. Hughes & Barry (1969, p. 1030) drew attention to the original description of *Vipera chlorechis* by Pel in [1851] and selected specimen 1648 in the Rijksmuseum van Natuurlijke Historie, Leiden, collected by Pel from Butre, Ghana, as the lectotype of the species.
8. The generic name *Chloroechis* has remained unused, while *Atheris* has appeared in many faunal lists and revisionary studies; these include Bogert (1940, p. 103), Laurent (1956, p. 330), Perret & Mertens (1957, p. 597), Doucet (1963, p. 327), Marx & Rabb (1965, p. 182), Hughes & Barry (1969, p. 1030), Broadley (1971, p. 107), Pitman (1974, p. 221), Villiers (1975, p. 168) and Rasmussen & Howell (1982, p. 270). In the interests of nomenclatural stability I request that the junior synonym be conserved.
9. The International Commission on Zoological Nomenclature is accordingly asked:
 - (1) to use its plenary powers to suppress the generic name *Chloroechis* Bonaparte, 1849, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
 - (2) to place on the Official List of Generic Names in Zoology the name *Atheris* Cope, 1862 (gender: feminine), type species by subsequent designation by Loveridge (1957) *Vipera chloroechis* Schlegel, 1855 (a junior subjective synonym of *Vipera chlorechis* Pel, [1851]);
 - (3) to place on the Official List of Specific Names in Zoology the name *chlorechis* Pel, [1851], as published in the binomen *Vipera chlorechis* (valid specific name at the time of this application of the type species of *Atheris* Cope, 1862);
 - (4) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Chloroechis* Bonaparte, 1849 as suppressed in (1) above.

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Report on the proposed conservation of the family-group name BELEMNITIDAE d'Orbigny, 1845 (Mollusca, Coleoidea), with suppression of the generic name *Belemnites* Lamarck, 1799 and the designation of *Passaloteuthis* Lissajous, 1915 as the type genus

(Case 2571; see BZN 43: 355–359; 44: 48, 194; 45: 50)

P. K. Tubbs

Executive Secretary, International Commission on Zoological Nomenclature

The proposals in this case by P. Doyle and W. Riegraf were published in December 1986 and March 1987, and on 1 December 1988 the Commission was asked to vote on them. The voting papers included '*Notes relating to the case*', which are reproduced below. The members of the Commission voted 20:3 in support of the proposals, but in dissenting Dr W. D. L. Ride asked that the case be re-opened, although he raised no unpublished issue.

The '*Notes*' on the voting papers and the following '*Request for comments*' were sent to all those who had corresponded on the case, and their edited replies are now published. Further comments are invited before the Commission re-votes on the proposals of Doyle and Riegraf.

Notes relating to the case, as sent to members of the Commission in December 1988

Since publication of the original application, a supplementary proposal for the conservation of the family name BELEMNITIDAE d'Orbigny, 1845 was made by the authors and published in BZN 44: 48 (March 1987).

A comment in support of the original application received from Mr C. W. Wright (*Beaminster, Dorset, U.K.*) was published in BZN 44: 48, together with a reply and the supplementary proposal by the authors.

Comments in support of both the original and supplementary proposals received from Professor D. T. Donovan (*University College, London, U.K.*) and from Dr M. K. Howarth (*British Museum (Natural History), London, U.K.*) were published in BZN 44: 194 and 45: 50. Dr T. I. Nal'nyaeva (*Institute of Geology and Geophysics, Novosibirsk, USSR*) also supported the suppression of *Belemnites paxillosa* (BZN 45: 50).

A comment in opposition from Professor G. Hahn was published in BZN 45: 50. The published comments by Donovan, Howarth and Nal'nyaeva are directly relevant to Professor Hahn's reservation. Further comments have been received from Mr R. V. Melville, Professor C. H. Holland (*Trinity College, Dublin, Ireland*), and Mr B. Challinor (*Hamilton, New Zealand*), who all agree that the name *Belemnites paxillosa* cannot be defined by a type designation, but that conservation of the name BELEMNITIDAE (with *Passaloteuthis* as type genus) is most important.

The proposals in BZN 43: 357 and 44: 48 are consolidated below, with unchanged content.

The International Commission on Zoological Nomenclature is asked:

- (1) to use its plenary powers to suppress the generic name *Belemnites* Lamarck, 1799 and also the specific name *paxillosa* Lamarck, 1801, as published in the binomen *Belemnites paxillosa*, for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;

- (2) to use its plenary powers to designate *Passaloteuthis* Lissajous, 1915 as the type genus of the nominal family BELEMNITIDAE d'Orbigny, 1845;
- (3) to place on the Official List of Generic Names in Zoology the name *Passaloteuthis* Lissajous, 1915 (gender: feminine), type species by original designation *Belemnites bruguierianus* d'Orbigny, 1843 (name of the type genus of BELEMNITIDAE d'Orbigny, 1845 by designation in (2) above);
- (4) to place on the Official List of Specific Names in Zoology the name *bruguierianus* d'Orbigny, 1843, as published in the binomen *Belemnites bruguierianus* (specific name of the type species of *Passaloteuthis* Lissajous, 1915);
- (5) to place on the Official List of Family-Group Names in Zoology the name BELEMNITIDAE d'Orbigny, 1845 (type genus *Passaloteuthis* Lissajous, 1915 by designation in (2) above);
- (6) to place on the Official Index of Rejected and Invalid Generic Names in Zoology the name *Belemnites* Lamarck, 1799, as suppressed in (1) above;
- (7) to place on the Official Index of Rejected and Invalid Specific Names in Zoology the name *paxillosa* Lamarck, 1801, as published in the binomen *Belemnites paxillosa* and as suppressed in (1) above.

Request for comments, sent to correspondents in March 1989

The above proposals were submitted to the Commission in 1986 by P. Doyle and W. Riegraf, and were supported by a number of workers. The application, the published comments, and notes on the voting papers which were distributed to members of the Commission on 1 December 1988 are attached.

In unpublished comments (mentioned on the voting papers) Mr R. V. Melville wrote 'I heartily support the proposals of Doyle & Riegraf . . .', Prof C. H. Holland wrote ' . . . as to the problem of BELEMNITIDAE, I agree with Doyle & Riegraf about this', and Mr B. Challinor said 'I strongly support the proposal to suppress the names *Belemnites* and *paxillosa* of Lamarck but to retain the family name BELEMNITIDAE'.

The proposals, which were published in BZN 43: 357 and 44: 48 and repeated on the voting papers, were presented to the Commission for a 3-month vote in December 1988. They were accepted by 20 Commissioners and rejected by 3, as follows:

For: Bayer, Bock, Cocks, Cogger, Corliss, Dupuis [abstaining in part, but supporting proposals (2) and (5)], Hahn, Heppell, Holthuis, Kabata, Kraus, Martins de Souza, Melville, Mroczkowski, Nielsen, Savage, Schuster, Thompson, Uéno, Willink.
Against: Ride, Starobogatov, Trjapitzin.

Voting for, Prof Hahn withdrew his earlier objection [BZN 45: 50], stating 'I now agree to the proposals, since (1) the name BELEMNITIDAE is conserved and (2) specialists have shown that the selection of a neotype of *Belemnites paxillosa* is not possible'.

Voting against, Dr Starobogatov said 'If we conserve the names BELEMNITIDAE and BELEMNITIDA we should conserve the name *Belemnites*, or in future great confusion could be caused if many families had names different from the type genera. Perhaps it is simpler to designate a neotype'.

Of the other two Commissioners voting against, Dr Trjapitzin made no comment, but with his vote Dr Ride wrote 'The conclusion to secure BELEMNITIDAE and to base it on the taxonomic concept expressed in the nominal taxon *Passaloteuthis* seems perfectly desirable but the solution to that end could be most upsetting. It is fundamental

in the nomenclature of the family-group that the type of any name in the family-group is determined by the root of the name (Art. 63). The same result can be achieved in a manner less upsetting to nomenclature by (1) setting aside all fixations of type species for *Belemnites* Lamarck, and (2) by declaring it a junior objective synonym of *Passaloteuthis* Lissajous by the relative precedence procedure. *B. bruguierianus* would become its type. Under Art. 40 BELEMNITIDAE as a taxonomic concept would be interpreted by reference to the taxonomic concept expressed equally by *Passaloteuthis* and *Belemnites*. Please re-open the case, as I consider that the action that the Commission is being asked to take under Art. 79 is contrary to a fundamental principle of the Code and would be seriously upsetting if adopted'.

Because Dr Ride asked that this case be referred back to the Commission I am sending this material to you for your comments. Your advice would be very much appreciated, so that the Commission can be fully informed when it votes again on this issue.

Dr Ride has proposed that, using its plenary powers, the Commission should (1) designate *B. bruguierianus* [the type species of *Passaloteuthis*] as the type species of *Belemnites* and then (2) rule that *Belemnites* Lamarck, 1799 (as re-defined) is to be treated as a junior objective synonym of *Passaloteuthis* Lissajous, 1915. The object of this is to keep the name *Belemnites* available for the nominal type genus of BELEMNITIDAE, though for no other purpose (the valid name for the genus would be *Passaloteuthis*). This would avoid departing from Articles 29 and 63 (eponymous families and type genera) and from zoological tradition, and so setting an undesirable precedent.

The alternative view is (1) that specialists have stated that *any* re-introduction of *Belemnites* as a generic name, even (or possibly especially) for a purely formal purpose and without its original date priority, would be very confusing to palaeontologists, (2) that all the information has been published and been supported, (3) that no general precedent would be set, since the designation of *Passaloteuthis* as the type genus of BELEMNITIDAE is an explicit act of the Commission using its plenary powers in an individual and special case, and there is no 'case law' in zoological nomenclature (page xiv of the Code, para. 8).

Since the Commission will now be asked to vote again on this case, your views would be much appreciated: should *Belemnites* Lamarck, 1799 have *B. bruguierianus* designated as its type species and then be treated as a junior objective synonym of *Passaloteuthis* Lissajous, 1915, or should *Belemnites* be suppressed and *Passaloteuthis* be designated as the type genus of BELEMNITIDAE, as previously voted upon?

Replies received

(1) P. Doyle

Nature Conservancy Council, Northminster House, Peterborough PE1 1UA, U.K.

Thank you for the papers summarising the progress of our proposed suppression of the generic name *Belemnites*, with conservation of the family name BELEMNITIDAE. I note Dr Ride's alternative suggestion, but it is my view that the original course suggested by Dr Riegraf and myself is the more sensible option.

The designation of *bruguierianus* d'Orbigny, 1843 as type species of *Belemnites* would not solve the problem painlessly, as though *Belemnites* and *Passaloteuthis* would be thus objective synonyms, their priority would be inverted. For clarification, future taxonomists concerned with the group would have to refer to two rulings of the Commission; namely the initial reason for the designation of *bruguierianus* as type, and secondly, the explanation why *Belemnites* is not then a senior objective synonym of *Passaloteuthis*. In my view, this is a tortuous alternative to the designation of *Passaloteuthis* as type genus of the BELEMNITIDAE.

It is my view that:

1. The Commission should reject the retention of *Belemnites*, in any form, for the reasons already published in the Bulletin, and should not accept Dr Ride's suggestion, which would ultimately be more confusing to future systematists than the original proposal.
2. The Commission should accept the designation of *Passaloteuthis* as type genus of the BELEMNITIDAE, as summarised in BZN 44: 48.

Finally, with regard to the current status of the nominal species *Belemnites bruguierianus*:

- (a) A specimen of the type series (i.e. a syntype) exists in the British Museum (Natural History), and Dr Goutier of the Paris Muséum d'Histoire Naturelle is proposing to formally select this as lectotype;
- (b) The present state of knowledge is that *Belemnites bruguierianus* is a junior subjective synonym of *B. bisulcatus* Blainville, 1827 (p. 79 of his *Mémoire sur les Bélemnites considérées zoologiquement et géologiquement*).

I hope this clarifies the position.

(2) Wolfgang Riegraf

c/o Westfälisches Museum für Naturkunde, Sentruper Strasse 285, D-440 Münster 1, Fed. Rep. Germany

There is no other possibility to stabilize the zoological nomenclature than to suppress the generic name *Belemnites* Lamarck, 1799 in favour of *Passaloteuthis* Lissajous, 1915 (type *Belemnites bruguierianus* d'Orbigny, 1843).

Any synonymization of *Belemnites* Lamarck, 1799 (a nomen dubium) with *Passaloteuthis* Lissajous, 1915 (as subjective or objective synonym) would cause further confusion. Also, *Belemnites* cannot be defined by selection of a neotype for its type species, as confirmed by specialists (see cited references in the Bulletin).

I strongly emphasise that the family name BELEMNITIDAE should remain valid.

(3) Gerhard Hahn

Berliner Strasse 31, D-3576 Rauschenberg, Fed. Rep. Germany

Thank you very much for the information concerning the suppression of *Belemnites*. I strongly support the proposal of Dr Ride, and I am happy that it may be perhaps a way to conserve the name *Belemnites*. As you know, I never was happy with the suppression of that name, but I voted in the affirmative, because it seems to be impossible to select a neotype, as was shown by the comments of the specialists. The proposal of Dr Ride avoids this difficulty.

(4) C. H. Holland

Department of Geology, Trinity College, Dublin 2, Ireland

Thank you for the material concerning *Belemnites*. There is no point in going over the same ground. I simply find the proposal by Dr Ride, though no doubt procedurally in order, to promise much future confusion for practising taxonomists. I think matters should be left as they have been decided. It is a very satisfactory decision supported by various people concerned with the cephalopods. I can see no difficulty in maintaining the family name BELEMNITIDAE in spite of the lack of the root. Everybody knows where the root originally was. Finally there is no question of this creating a widespread practice. This particular situation has its unique character.

(5) C. W. Wright

The Old Rectory, Seaborough, Beaminster, Dorset DT8 3QY, U.K.

Dr Ride says that a plenary powers decision to conserve BELEMNITIDAE while suppressing *Belemnites* would be 'seriously upsetting', because it would transgress the principle of having family names based on a currently available generic name. But *all* plenary powers decisions transgress some principle — in the interests of stability. It would be just as 'seriously upsetting' to declare that *Belemnites* Lamarck, 1799 (redefined) was a 'junior' objective synonym of *Passaloteuthis* Lissajous, 1915. In fact, it would be *more* upsetting, since the Principle of Priority is the most fundamental principle of the Code.

(6) D. T. Donovan

Department of Geological Sciences, University College London, Gower Street, London WC1E 6BT, U.K.

I believe that the most straightforward thing would be to accept the majority vote of the Commission and suppress the generic name *Belemnites* for all purposes, retaining the name BELEMNITIDAE as a family-group name.

The alternative, proposed by Dr Ride, to retain *Belemnites* with a new type species, but declare it a junior objective synonym, would seem a rather tortuous procedure, and also confusing in making a very old name a junior synonym!

However, it must be admitted that it would not make a great deal of difference to systematic authors which solution is adopted, as in either case they would wish to refer to the name *Belemnites* and explain what had happened to it, once a decision of the Commission is available.

(7) A. B. Challinor

25 Bailey Avenue, Hamilton, New Zealand

Thank you for the opportunity to comment further on the *Belemnites* problem. I have read through comments by the Commissioners and others and still consider the majority opinion to be the most practical. As before, I favour suppression of the names *Belemnites* and *paxillosa* Lamarck, and designation of *Passaloteuthis* Lissajous, 1915 as type genus of BELEMNITIDAE.

(8) M. K. Howarth

Department of Palaeontology, British Museum (Natural History), Cromwell Road, London SW7 5BD, U.K.

If the Commission is going to vote again on this case, I would not support the designation of *B. bruguierianus* as type species of *Belemnites* as a device to secure *Belemnites* rather than *Passaloteuthis* as the type genus of BELEMNITIDAE. The proposals as originally proposed, voted on and accepted, i.e. to suppress *Belemnites* and to designate *Passaloteuthis* as type genus of BELEMNITIDAE, seem to me to resolve the difficulty in the best way that is possible. After all the discussion about the difficulty in interpreting *Belemnites* and its type species, I think that to use the plenary powers to designate a different type species would cause more confusion in the long term than is desirable. I can only support the outcome of the case as originally voted on.

Comments on the proposed precedence of GRYLLACRIDOIDEA Stål, 1874 (Insecta, Orthoptera) over STENOPELMATOIDEA Burmeister, 1838
(Case 2603; see BZN 46: 25–27 and 191)

(1) D. C. F. Rentz

Division of Entomology, CSIRO Australia, GPO Box 1700, Canberra, ACT 2601, Australia

I would like to support Key's proposal to give the name GRYLLACRIDOIDEA precedence over the older name STENOPELMATOIDEA. As he points out, many revisions, faunal works, and general textbooks have used the term GRYLLACRIDOIDEA for more than 40 years for the group concerned. It would serve no useful purpose that I can see to replace the name. I urge the Commission to use its powers to conserve it for the superfamily that contains, among others, *Stenopelmatus* Burmeister, 1838 and *Gryllacris* Audinet-Serville, 1831.

(2) Miss A. J. A. Green (*Tasmanian Museum, GPO Box 1164M, Hobart, Tasmania 7001, Australia*) and Dr N. D. Jago (*Overseas Development Natural Resources Institute, Chatham, Kent ME4 4TB, U.K.*) have also written in support of the proposals in BZN 46: 26–27.

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Family-Group Names

ADERIDAE Winkler, 1927 (Coleoptera) Op. 1549

ATYDAE Abbott, 1954 Op. 1553

ATYDIDAE Thiele, 1925 (Gastropoda) Op. 1553

ATYIDAE Thiele, 1925 Op. 1553

AZINIDAE Walsingham, 1906 (Lepidoptera) Op. 1544

CALLIANIDEINAE De Man, 1928 (Decapoda) Op. 1522

CHELIFERIDAE Westwood, 1838 (Arachnida) Op. 1542

DIOTOPHYMATIDAE Railliet, 1915, Op. 1552

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DISCOCEPHALIDAE Pinter, 1928 Op. 1538

DISCOCEPHALINAE Fieber, 1861 (Hemiptera) Op. 1538

DISCOCYCLININAE Galloway, 1928 (Foraminiferida) Op. 1537

DISCULICIPITIDAE Joyeux & Baer, 1935 (Cestoda) Op. 1538

DYSIDEIDAE Gray, 1867 (Porifera) Op. 1550

ELACHISTIDAE Bruand, 1850 (Lepidoptera) Op. 1557

ETHMIDAE Busck, 1909 (Lepidoptera) Op. 1544

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Anomala Samouelle, 1819 (Coleoptera) Op. 1546

Anomala von Block, 1799 Op. 1546

Atys Montfort, 1810 (Gastropoda) Op. 1553

Azinis Walker, 1863 (Lepidoptera) Op. 1544

Callianidea Milne Edwards, 1837 (Decapoda) Op. 1522

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Compylirhynchus Dejean, 1821 Op. 1529

Ceutorhynchus Germar, 1824 (Coleoptera) Op. 1529

Chagrinichnites Feldmann, Osgood, Szmuc & Meinke, 1978 (Trace Fossil) Op. 1520

Chelifer Geoffroy, 1762 (Arachnida) Op. 1542

Chelonus Panzer, 1806 (Hymenoptera) Op. 1546

Coeliodes Schoenherr, 1837 (Coleoptera) Op. 1529

Coeloides Wesmael, 1838 (Hymenoptera) Op. 1530

Colomerus Newkirk & Keifer, 1971 (Arachnida) Op. 1521

Compylirhynchus Hummel, 1823 Op. 1529

Cryptocoeloma Miers, 1884 (Decapoda) Op. 1554

Desidea Koehler, 1855 Op. 1550

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- Discocephala** Laporte, 1833 (Hemiptera)
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Discocephalum Linton, 1891 Op. 1538
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Disculiceps Joyeux & Baer, 1935 (Cestoda)
Op. 1538
Disophrys Foerster, 1862 (Hymenoptera)
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Duseidea Delage & Hérouard, 1899 Op.
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Duseidea Johnston, 1842 Op. 1550
Dyseidea Lieberkuhn, 1859 Op. 1550
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Elachista Kollar, 1832 Op. 1557
Elachista Treitschke, 1833 (Lepidoptera)
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Eriophyes von Siebold, 1851 (Arachnida)
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Ethmia Hübner, [1819] (Lepidoptera) Op.
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Hypsibius Ehrenberg, 1848 (Tardigrada)
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Isea Agassiz, 1846 Op. 1522
Isea Milne Edwards, 1830 (Decapoda) Op.
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Isea Guérin[-Méneville], 1832 Op. 1522
Kinosternon Spix, 1824 (Reptilia) Op. 1534
Loxoconchella Triebel, 1954 (Ostracoda)
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Ludita Nagy, 1967 (Hymenoptera) Op. 1559
Megaloceros Brookes, 1828 (Mammalia)
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Meriellum Linsley, 1957 (Coleoptera) Op.
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Merium Kirby, 1837 Op. 1525
Mononychus Germar, 1824 (Coleoptera)
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Phymatodes Pascoe, 1867 (Coleoptera) Op.
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Sternotherus Gray, 1825 (Reptilia) Op. 1534
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- anabathrum**, **Conus**, Crosse, 1865
(Gastropoda) Op. 1539
arcticus, **Platygaster**, Zetterstedt, 1838
(Diptera) Op. 1545
arenicola, **Holothuria**, Semper, 1868
(Holothuroidea) Op. 1533
articularis, **Harpa**, Lamarck, 1822
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assimilis, **Curculio**, Fabricius, 1775 Op. 1529
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- avellanae**, *Phytoptus*, Nalepa, 1889 (Arachnida) Op. 1521
- balliston**, *Lampides*, Hübner, [1823] Op. 1527
- bifasciella**, *Elachista*, Treitschke, 1833 (Lepidoptera) Op. 1557
- bilobatus**, *Physophyscus*, Lesquereux, 1891 Op. 1520
- boleti**, *Lytta*, Marsham, 1802 (Coleoptera) Op. 1549
- brandtii**, *Holothuria*, Selenka, 1867 Op. 1533
- brooksi**, *Chagrinichnites*, Feldmann, Osgood, Szmuc & Meinke, 1978 (Trace Fossil) Op. 1520
- caeruleus**, *Heliases*, Cuvier, 1830 Op. 1563
- caesa**, *Agathis*, Klug, 1835 (Hymenoptera) Op. 1531
- cancroides**, *Acarus*, Linnaeus, 1758 (Arachnida) Op. 1542
- chrishna**, *Ammonites*, Forbes, 1846 (Ammonoidea) Op. 1519
- coryli**, *Phytoptus*, Frauenfeld, 1865 Op. 1521
- coryligallarum**, *Phytoptus*, Targioni-Tozzetti, 1885 Op. 1521
- delicata**, *Harpa*, Perry, 1811 Op. 1518
- distincta**, *Corisa*, Fieber, 1848 (Hemiptera) Op. 1524
- dryados**, *Curculio*, Gmelin, 1790 (Coleoptera) Op. 1529
- dujardin**, *Macrobilotus*, Doyère, 1840 Op. 1551
- dujardini**, *Macrobilotus*, Doyère, 1840 (Tardigrada) Op. 1551
- elegans**, *Ophiura*, Leach, 1815 Op. 1560
- elongata**, *Isea*, Guérin[-Méneville], 1832 (Decapoda) Op. 1522
- emolus**, *Polyommatus*, Godart, [1824] (Lepidoptera) Op. 1527
- felis**, *Silurus*, Linnaeus, 1766 (Osteichthyes) Op. 1547
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- gardeniella**, *Eriophyes*, Keifer, 1964 (Arachnida) Op. 1521
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- gigantea**, *Alce*, Blumenbach, 1799 (Mammalia) Op. 1566
- gryphaeoides**, *Avicula*, J. de C. Sowerby, 1836 (Bivalvia) Op. 1540
- gryphaeoides**, *Avicula*, Sedgwick, 1829 Op. 1540
- guttatus**, *Sipunculus* (*Phymosomum*), De Quatrefages, 1865 Op. 1532
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CORRIGENDA

Vol. 44, part 2
page 133, last line

For 'fig. 1' read 'fig. 1, 1a, 1b'

Vol. 45, part 1
page 87, line 24

For 'In 1910 Opinion 67' read 'In 1916 Opinion 67'

Vol. 46, part 1
page 38, line 3

For '*Cryptodactylus*' read '*Cyrtodactylus*'

Vol. 46, part 1
page 51, 5 lines from foot of page

For '*Nocturnis*' read '*Notornis*'

Vol. 46, part 1
page 71, line 3

For 'Diptera' read 'Coleoptera'

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INSTRUCTIONS TO AUTHORS

The following notes are primarily for those preparing applications to the Commission; other authors should comply with the relevant sections. Parts of the Bulletin since 44 (1) should be consulted as examples.

Title. This should be written in lower case letters and include the names to be conserved. A specific name should be cited in the original binomen, with the current binomen in parentheses.

Author's name. Full postal address should be given.

Abstract. This will be prepared by the Commission Secretariat.

Text. Typed in double spacing, this should consist of numbered paragraphs setting out the details of the case and leading to a final paragraph of formal proposals. Text references should give dates and page numbers in parentheses, e.g. 'Daudin (1800, p. 39) described . . . '.

References. These should be given for all authors cited. The titles of periodicals should be *in full* and be underlined; numbers of volumes, parts, etc. should be in arabic figures, separated by a colon from page numbers. Book titles should be underlined and followed by the number of pages, the publisher and the place of publication.

Submission of application. Two copies should be sent to the address on the inside front cover. The Secretariat is willing to offer additional advice at an early stage in the preparation of manuscripts.

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